

IN THE CIRCUIT COURT FOR BALTIMORE CITY

KEVIN TOLSON,
Plaintiff,
v.
ST. AGNES HEALTHCARE, INC.,
et al.,
Defendants.

VIDEOTAPED DEPOSITION
OF
CHARLES MICHAEL SCHUCH

At Raleigh, North Carolina Reported by:
March 24, 2014 - 12:07 p.m. Tammy Johnson, CVR-CM-M

1 A P P E A R A N C E S
2 FOR THE DEFENDANTS MARYLAND-PROVO, PRUDENCE JACKSON,
3 M.D., SHAH KRUPA, P.A.:
4 Gregory L. VanGeison
5 ANDERSON COE & KING
6 7 Saint Paul Street, Suite 1600
7 Baltimore, Maryland 21202
8 (410)752-1630
9 vangeison@acklaw.com

10
11 ALSO PRESENT:
12 Michael Kirby, Videographer

1 A P P E A R A N C E S
2 FOR THE PLAINTIFF:
3 Rodney M. Gaston
4 MILLER & ZOIS
5 Empire Towers, Suite 1001
6 7310 Ritchie Highway
7 Glen Burnie, Maryland 21061
8 (410)553-6000
9 rodgaston@millerandzois.com
10
11 FOR THE DEFENDANTS ST. AGNES HEALTHCARE, C. STELLE:
12 Mairi Pat Maguire
13 PESSIN KATZ LAW
14 901 Dulaney Valley Road, Suite 400
15 Towson, Maryland 21204
16 (410)938-8800
17 mpmaguire@pklaw.com

1 T A B L E O F C O N T E N T S
2 EXAMINATION - ATTORNEY PAGE
3 Direct - Gaston 6
4
5 EXHIBITS PAGE
6 Plaintiff's 8 Notice of Deposition 5
7 Plaintiff's 9 Michael Schuch Handwritten 118
8 Notes

9
10 [ALL EXHIBITS RETAINED]
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

1 I, Tammy Johnson, being a Certified Verbatim
 2 Reporter and Notary Public in and for the state of
 3 North Carolina, was appointed Commissioner by
 4 consent to record the deposition of Charles Michael
 5 Schuch on March 24, 2014, beginning at 12:07 p.m.
 6 at the offices of Capital Reporting, Inc., located
 7 at 8320 Falls of Neuse Road, Suite 111, Raleigh,
 8 North Carolina.

9 _____
 10 [DEPOSITION EXHIBIT NO. 8 MARKED FOR
 11 IDENTIFICATION]

12 THE VIDEOGRAPHER: We are on the
 13 record at 12:07 p.m. This is the videotaped
 14 deposition of Michael Schuch taken by the Plaintiff
 15 in the matter of Kevin Tolson versus St. Agnes
 16 Health Care, Inc., et al., case number
 17 24-C-12-008071 in the Circuit Court for Baltimore
 18 City.

19 This deposition is being held in the
 20 offices of Capital Reporting, Inc., located in
 21 Raleigh, North Carolina, on March 24th, 2014. The
 22 court reporter is Tammy Johnson. The videographer
 23 is Michael Kirby, both with the firm of Capital
 24 Reporting. Would counsel now please introduce
 25 themselves?

1 I've asked you to appear here today in the state of
 2 North Carolina for your deposition is because the
 3 Defendants have identified you as a witness who may
 4 offer expert opinion testimony in this case, so I'm
 5 here basically to find out what opinions you intend
 6 to give in this case and all the factual basis for
 7 your opinions. Have you ever had your deposition
 8 taken before?

9 **A:** Yes, sir.

10 **Q:** Okay. I just want to go over a few of
 11 the rules so we can get through this and create an
 12 accurate record. If any time I ask you a question
 13 that you don't understand, stop me immediately and
 14 let me know and I will try to rephrase the question.
 15 Otherwise, if you don't, we will have assumed that
 16 you've understood the question and you've answered
 17 it appropriately. Also, if at any time you need to
 18 take a break, just let us know and we'll take a
 19 break.

20 There's one other rule. In normal
 21 conversation, it's -- people usually interrupt each
 22 other. And I'm sure you will have anticipated some
 23 of the questions that I'm going to ask you. So what
 24 I'd ask you to do is if you could wait until I get
 25 my entire question out before you answer, the court

1 **MR. GASTON:** Rodney M. Gaston. I
 2 represent the Plaintiff, Kevin Tolson.

3 **MR. VANGEISON:** Gregory VanGeison.
 4 I represent Prudence Jackson, M.D., and Krupa Shah,
 5 PA.

6 **MS. MAGUIRE:** Mairi Pat Maguire on
 7 behalf of Defendant St. Agnes Health Care, Inc., and
 8 Caroline Stelle, RN.

9 **THE VIDEOGRAPHER:** The court
 10 reporter may swear in the witness.

11 Whereupon,

12 **CHARLES MICHAEL SCHUCH,**
 13 having first been duly sworn, was examined and
 14 testified as follows:

15 **DIRECT EXAMINATION**

16 **BY MR. GASTON:**

17 **Q:** Sir, could you please state your name and
 18 business address?

19 **A:** Full name is Charles Michael Schuch,
 20 S-C-H-U-C-H. My business address is 211 Autumn
 21 Chase Drive here in Raleigh, North Carolina 27613.

22 **Q:** Thank you very much. Mr. Schuch, my name
 23 is Rod Gaston, and I represent Mr. Tolson in an
 24 action that's pending in the Circuit Court for
 25 Baltimore City in the state of Maryland. The reason

1 reporter will have a much easier job taking down my
 2 question and your answers. Does that sound fair?

3 **A:** It does.

4 **Q:** Okay. Sir, I want to show you what's
 5 been marked as Plaintiff's Exhibit No. 8, which is
 6 your Notice of Deposition for today, and ask you to
 7 take a look at that document, if you would. And in
 8 particular, I want to draw your attention to page 3.
 9 That --

10 **A:** This is the first time I've seen this.

11 **Q:** That was going to be my next question.
 12 That's the first time you've seen it?

13 **A:** I was actually surprised that I didn't
 14 get one.

15 **Q:** Okay. If you want to, go through and
 16 read the list of documents that we've requested.
 17 And then at the end, if you can tell me what, if
 18 any, documents you've brought with you today in
 19 accordance with my request.

20 [WITNESS REVIEWS DOCUMENT]

21 **Q:** Okay. Have you had a chance to read the
 22 26 items that we asked you to bring?

23 **A:** I did.

24 **Q:** And can you tell me what items you
 25 brought with you today?

1 A: Number 1.
 2 Q: Okay. And what does that consist of,
 3 sir?
 4 A: I had basically -- can I look at it?
 5 Q: Absolutely. Sure.
 6 A: It's been a while since I looked at some
 7 of it. It looks like the complaint, medical
 8 records.
 9 Q: Can you tell me the -- from what
 10 hospital?
 11 A: Let me see if I can find a cover letter
 12 because I think Danielle -- okay. This is the
 13 original cover letter that accompanied the stuff
 14 that I got initially.
 15 Q: Okay. What's the date of that letter,
 16 sir?
 17 A: July 22nd, 2013.
 18 Q: Okay. And is that from Ms. Dinsmore,
 19 defense counsel?
 20 A: It is.
 21 Q: Okay. If you want to --
 22 A: Actually directed by her but signed by
 23 Darlene Stefanowicz, paralegal.
 24 Q: Okay. And can you just -- why don't you
 25 go ahead and read the -- do you believe that the

1 transcript of Stacy Tolson, deposition transcript of
 2 Kevin Tolson.
 3 Q: Okay. And did you read -- actually read
 4 all of these items?
 5 A: Yes.
 6 Q: Okay.
 7 MR. VANGEISON: And -- and just so
 8 the record is clear because you may not think of it
 9 as a document, but you also received video clips.
 10 THE WITNESS: Correct.
 11 MR. GASTON: That was going to be my
 12 next question.
 13 MR. VANGEISON: Thank you.
 14 MR. GASTON: Thank you, Counsel.
 15 Q: Well, what else did you receive from
 16 defense counsel?
 17 A: A single disc that had multiple files on
 18 it, IrfanView picture files and a couple of video
 19 files.
 20 Q: Did you look at the video?
 21 A: Yes.
 22 Q: Okay. And did the video show a -- an
 23 African-American male with a prosthetic device doing
 24 activities around his house?
 25 A: Yes, it did.

1 items that are listed on that letter from defense
 2 counsel were the items that you received?
 3 A: Yes, sir. I always do an inventory and
 4 -- and actually reprint what I got on my invoice.
 5 Q: All right. Go ahead and read those for
 6 us, sir.
 7 A: Number 1 is the complaint.
 8 Q: Uh-huh.
 9 A: Two is certificates of Plaintiff's
 10 certifying experts. Three is Plaintiff's expert
 11 designation. Four, Plaintiff's economic report by
 12 Richard Luritto, Ph.D. Five, prosthetic evaluation
 13 of life care cost estimate from Dale A. Berry. Six,
 14 records from Hanger Prosthetics. Seven, Workers'
 15 Compensation file. Eight, discharge summary from
 16 the University of Maryland Medical Center. And 9,
 17 evaluation by Advanced Care Physical Therapy.
 18 Q: Okay. Have you received -- other than
 19 the documents that you just read into the record,
 20 have you received any other documents from defense
 21 counsel?
 22 A: All by e-mail, which I didn't print, of
 23 -- one was a supplemental report or amended report
 24 from Gregory Sachs and Dale Berry. And the
 25 deposition transcript of Gregory Sachs, deposition

1 Q: And --
 2 A: A day in the life.
 3 Q: Oh, very good. And did the video also
 4 show an African-American -- which I'll tell you is
 5 Mr. Tolson -- walking up some steps?
 6 A: With a split screen beside it?
 7 Q: Yes, sir.
 8 A: Yes.
 9 Q: And on the other side of the screen, did
 10 it show an individual who's not Mr. Tolson walking
 11 up a -- a flight of steps sort of side by side?
 12 A: Correct.
 13 Q: Okay. All right. Now, did defense
 14 counsel send you anything else?
 15 A: No, not that I'm aware of.
 16 Q: Okay.
 17 A: And, actually, in my report, I list
 18 everything, including those last few items that
 19 weren't on the original inventory list.
 20 Q: And do you have your report here with
 21 you?
 22 A: Yeah. I think I did make a copy.
 23 Q: Okay. You can refer to it during your
 24 deposition, if you'd like.
 25 A: I'm familiar with it, but it wouldn't

1 hurt to have it under my nose. You asked if there
 2 was anything else. I did get a letter from Ms.
 3 Dinsmore tell -- giving me the trial date and
 4 talking about when I may be called and notify her
 5 for I wasn't available.
 6 **Q:** Okay. All right. Anything else that you
 7 received from defense counsel in this case?
 8 **A:** No, sir.
 9 **Q:** Okay. Did you do any of your own
 10 research, either literature research, Internet
 11 research, telephone consultations with any other
 12 person for this case?
 13 **A:** I did several phone conversations with
 14 contacts I have in our national office, a contact
 15 that I actually had with Hanger. These are people
 16 that would be involved and have knowledge of
 17 statistics, billing utilization.
 18 **Q:** And when you say your national office,
 19 can you -- can you tell me what your national office
 20 means?
 21 **A:** The American Orthotic and Prosthetic
 22 Association, which is our trade --
 23 **Q:** Is --
 24 **A:** -- and business development association.
 25 **Q:** Is that an organization that you belong

1 him so I got an assistant --
 2 **Q:** Okay.
 3 **A:** -- that was -- was helpful. And but I --
 4 I did not write down their name.
 5 **Q:** Are you relying upon the information that
 6 you received from this assistant for the opinions
 7 that you intend to give in this case?
 8 **A:** It supplements what I -- I felt like I
 9 already knew in terms of utilization.
 10 **Q:** Well, can you --
 11 **A:** I didn't -- I didn't get any conflicting
 12 information.
 13 **Q:** Well, what information did you get?
 14 **A:** Basically, it -- it was my experience and
 15 opinion that the use of this -- of the C-Leg was not
 16 the standard of care and it wasn't even used even 20
 17 percent of the time across this country and Europe
 18 and basically got agreement. And they did some
 19 research and e-mailed me back or -- or called me
 20 back or whatever and supported what I felt like I
 21 already knew.
 22 **Q:** Okay. Did you keep those e-mails?
 23 **A:** No. I'm not sure I -- I'm -- said -- it
 24 might have been e-mail. It might have --
 25 **Q:** Okay. So --

1 to?
 2 **A:** No, sir. That's a mem- -- the -- the
 3 companies -- firms are members of that.
 4 **Q:** Okay. I'm not -- explain a little bit
 5 more, if you could.
 6 **A:** Hanger would be a member. The company I
 7 most recently worked for in Fayetteville, Advanced
 8 Orthotics & Prosthetics -- or Advanced Brace & Limb,
 9 they -- they were a member.
 10 **Q:** Okay. So --
 11 **A:** And even though it -- I'm no longer
 12 affiliated with a member company, I'm a past
 13 president of AOPA and I'm past president of our
 14 academy, and they'll talk to me anyway. I've got,
 15 you know, friends.
 16 **Q:** Sure you do.
 17 **A:** That's what our industry is all about.
 18 **Q:** Okay. Can you --
 19 **A:** We talk to each other.
 20 **Q:** Can you tell me specifically who you
 21 spoke with at your national organization when you
 22 called them for this case?
 23 **A:** I was looking for a specific person,
 24 whose name is slipping me right now. He's the
 25 director of reimbursement. But I was unable to get

1 **A:** I don't -- I don't save a lot of e-mails.
 2 I generally delete them. If they're important, I
 3 put them into folders.
 4 **Q:** Well, what I'm trying to figure out is I
 5 believe you -- you intend to provide opinions with
 6 respect to the standard of care for prosthetic legs
 7 utilized in this country?
 8 **A:** Yes.
 9 **Q:** Is that co- -- okay. Now --
 10 **A:** An -- an opinion.
 11 **Q:** An opinion, right. And you said that the
 12 use of the C-Leg was or was not the standard of
 13 care?
 14 **A:** It -- it is not close to the standard of
 15 care. I think it's -- the -- the C-Leg is -- is
 16 above and beyond the standard of care by a large
 17 measure.
 18 **Q:** Above and beyond. Did you rely upon your
 19 conversation with this assistant at the national
 20 organization in order to reach this opinion?
 21 **MR. VANGEISON:** Object. I think
 22 he's already answered that, but you can -- can do it
 23 again.
 24 **A:** Again, I -- I was looking for support or
 25 total disagreement. No, you need to wake up; you

1 know, this what's happening out there.
 2 **Q:** Would it be fair to say that when you
 3 were initially contacted to render an opinion in
 4 this case, that you weren't confident enough
 5 regarding whether the C-Leg was or was not the
 6 standard of care, which is why you sought out
 7 additional information?
 8 **A:** I was -- I was very confident.
 9 **Q:** Very confident.
 10 **A:** I've been in this profession for 40 years
 11 and worked in --
 12 **Q:** And --
 13 **A:** -- numerous places.
 14 **Q:** You were ver- -- I'm trying to figure out
 15 why did you then reach out to someone else if you
 16 were very confident?
 17 **A:** I'm -- I'm always looking for
 18 information. I'm --
 19 **Q:** Did you make notes of the conversation
 20 that you had with this person at your national
 21 academy?
 22 **A:** Not that I have available. I don't
 23 recall making notes.
 24 **Q:** And you don't have any of those with you?
 25 **A:** No.

1 **Q:** Was that one conversation?
 2 **A:** One conversation with a return phone
 3 call.
 4 **Q:** Okay. Do you know how -- how long you
 5 were on the phone with that person?
 6 **A:** No.
 7 **Q:** Okay. Do you know when that occurred?
 8 **A:** No.
 9 **Q:** Okay. Was it before or after you wrote
 10 -- submitted your written report?
 11 **A:** It would have been after. I'm sorry.
 12 Before.
 13 **Q:** Before, okay. Now, where did you get the
 14 percentage that you utilized on page 1 where it
 15 says, "The C-Leg prescribed, recommended and
 16 utilized in less than 15 percent of the amputation
 17 cases requiring a prosthetic knee"?
 18 **A:** From experience more than the anything.
 19 I -- I attend our national and regional meetings.
 20 We have a tight network. We talk about what we're
 21 doing. I'm in touch with most of the leading edge
 22 prosthetists in the country. There's a limited
 23 number of people who do expert witness work. We
 24 speak on a fairly frequent basis. And these are
 25 typical topics of conversation.

1 **Q:** Okay.
 2 **A:** Definitely.
 3 **MR. VANGEISON:** He -- he has notes,
 4 but not from that conversation, correct?
 5 **THE WITNESS:** Yeah, I -- yeah, I
 6 have notes from reading the deposition transcripts.
 7 **Q:** Okay. We'll get to that in a second.
 8 We're talking about notes from this conversation --
 9 **A:** No.
 10 **Q:** -- with --
 11 **A:** No.
 12 **Q:** -- with an assistant from the national
 13 academy. Now, is -- is --
 14 **A:** I was just looking for guidance to make
 15 sure that I wasn't off base and missing something.
 16 **Q:** Okay. Now, is that -- you only spoke to
 17 one person at the national academy?
 18 **A:** The national association.
 19 **Q:** National association. Would that be
 20 true?
 21 **A:** And I spoke to various friends around the
 22 country that are area managers for Hanger.
 23 **Q:** Okay. Let's just talk to the national
 24 association. Only one person there?
 25 **A:** Yeah.

1 **Q:** Well, I'm trying to figure out -- 15
 2 percent is pretty specific. Is it an estimate?
 3 **A:** I can't -- I'd say, yes, it's my estimate
 4 and my opinion.
 5 **Q:** Could it be as -- as much as 50 percent?
 6 **A:** No.
 7 **Q:** Okay. What I'm trying to figure out is
 8 how did you arrive at the figure of 15? If it's
 9 just by conversations -- did you look to any
 10 documentary evidence from any company that actually
 11 manufactures and sells the C-Leg to figure out how
 12 many C-Legs the company sells versus how many
 13 amputees there are in the United States?
 14 **A:** Some -- some of the conversation that has
 15 occurred even outside of this case is the -- the
 16 typical number of above-knee amputees per year in
 17 the -- in the country, which I can't quote you. But
 18 -- and the typical standard of care, the direction
 19 that that standard of care is -- is taking in terms
 20 of what's acceptable, what's your -- as a
 21 practitioner, what's my argument for justification
 22 the insurance companies accept.
 23 **Q:** Well, what -- what is a typical number of
 24 amputees, above-the-knee amputees in the United
 25 States per year?

1 MS. MAGUIRE: Objection. Just asked
 2 and answered.
 3 A: I -- I don't have that figure in front of
 4 me.
 5 Q: Can you give -- is it 2,000, 5,000 --
 6 A: I'd be --
 7 Q: -- 10,000?
 8 A: I'd be guessing.
 9 Q: You'd be guessing. And then what I'm
 10 trying to figure out is if you can only guess at the
 11 number of total amputees, above-the-knee amputees
 12 that there are in the United States, and you're only
 13 guessing at that number, how do you get from that
 14 number that you're guessing at to the 15 percent if
 15 you don't know the original number?
 16 A: I spent a year with a company called SPS
 17 in Alpharetta, and my job was to develop a clinical
 18 education team. SPS was the world's largest
 19 distributor of prosthetic and orthotic components,
 20 and they were starting to sell a lot of
 21 microprocessors. And the clinical -- the goal of
 22 the clinical team was to train onsite first-time
 23 purchasers of given microprocessors.
 24 During that year, I traveled all over the
 25 United States. I went to probably a hundred-plus --

1 that correct, 100 facilities?
 2 A: Again, I di- -- don't have the -- a
 3 factual count in front of me, but that would be my
 4 estimate.
 5 Q: Okay. And --
 6 A: I traveled all week long from facility to
 7 facility.
 8 Q: What type of facilities did you travel
 9 to?
 10 A: Clinical patient care, just like Hanger.
 11 Q: Okay. Now, is SPS a provider of orth- --
 12 orthotics or prosthetic devices?
 13 A: No. They --
 14 Q: Okay.
 15 A: -- they're the world's largest
 16 distributor of other manufacturers' components,
 17 supplies, equipment. Anything related to
 18 prosthetics and orthotics, --
 19 Q: They don't make them --
 20 A: -- they -- they sell it.
 21 Q: They don't make them; they sell them?
 22 A: No. They're not a manufacturer.
 23 Q: Got you. Okay. Now, and what we're --
 24 what we're talking about in this case is
 25 above-the-knee amputation prosthetic devices. And

1 more than that -- facilities and did personal onsite
 2 training and fittings. And in the course of that
 3 year, I learned a lot, asked a lot of questions.
 4 Again, this is my opinion. I didn't say I had a
 5 hundred percent fact to back it up.
 6 Q: That's what I'm looking for, the facts.
 7 Which year did you work for SPS?
 8 A: 2011 to 2012, June to June.
 9 Q: Do you have a copy of your recent C.V.
 10 with you?
 11 A: No. I assume since I didn't get the --
 12 what do you call it, duces tecum --
 13 Q: You didn't get the Notice of Deposition?
 14 A: Yeah. I assumed you had that anyway.
 15 Q: Okay.
 16 A: I can provide that if needed.
 17 Q: It would have been -- it would have been
 18 helpful, but let's go back. So you recently were
 19 employed by SPS 2- -- between 2011 and 2012. Were
 20 you a consultant or a full-time employee?
 21 A: I was a full-time employee.
 22 Q: And what was your job title?
 23 A: Direct- -- director of clinical and
 24 technical education.
 25 Q: Okay. And you went to over 100 sites; is

1 can you tell me for the year 2011 to 2012 how many
 2 of those devices were sold by SPS?
 3 A: No.
 4 Q: Can you tell me during the year 2011 to
 5 2012 how many amputees SPS fitted for any type of a
 6 lower-leg prosthetic?
 7 A: Well, SPS wouldn't have been fitting
 8 them. We -- we go attend -- the way the -- the
 9 program worked was the prosthetist did his work up
 10 from and we attended when he was ready for fitting.
 11 And if there were existing problems in fit and
 12 alignment, we offered suggestions for improvement.
 13 Sometimes you couldn't move on with the
 14 microprocessor until you got the foundation correct.
 15 But I'm -- the primary role is to train them in
 16 Bluetooth connection, software loading and
 17 utilization, and then the communication between the
 18 software and the -- the microprocessor knee.
 19 Q: Okay. And can you tell me from the year
 20 2011 to 2012 how many lower-leg prosthetic devices
 21 SPS actually sold for amputees? Don't remember?
 22 A: I have no clue. It would be -- when you
 23 say devices, you mean components?
 24 Q: Right.
 25 A: Yeah. When -- there's so many different

1 components. We carried over 130 different kinds of
 2 feet. We carried probably at least five
 3 microprocessor knees, and there are other hydraulic
 4 knees, pneumatic knees. There -- there's probably
 5 200 different kinds of knees that are available. So
 6 when you say components, the numbers are just --
 7 that -- that wasn't in my purview.

8 **Q:** Okay. So --

9 **A:** But I know that for years they've been
 10 the world's largest distributor.

11 **Q:** Okay. So you weren't privy to the sales
 12 numbers?

13 **A:** It wasn't relevant for what I was doing.

14 **Q:** Got you.

15 **A:** And I'm not a -- I'm not a sales number
 16 guy.

17 **Q:** Okay. What --

18 **A:** I would hear them in the meetings because
 19 I was on their leadership team and I would hear the
 20 reports, but it -- it basically wasn't in my
 21 purviews. Like when I gave my report about clinical
 22 stuff, the sales people went to sleep.

23 **Q:** Okay. I got it. So -- and I'm just
 24 trying to figure out -- you said that you gained
 25 experience when you -- when you were trying to reach

1 **A:** No. We had sales reps or sales managers.
 2 We traveled with them. They would choose -- the
 3 company that wanted our assistance would put in the
 4 request through the sales rep, who would bring it to
 5 me and the vice president of marketing, and we would
 6 decide which of my team went where and when and we
 7 traveled with the sales rep.

8 **Q:** Okay.

9 **A:** Because sometimes I didn't know the --
 10 the owners of the facility or the practitioners
 11 where I was going. Most of the time, I already knew
 12 them, but --

13 **Q:** Did you ever participate in the actual
 14 fitting of the lower-leg prosthetic device?

15 **MR. VANGEISON:** You mean --

16 **Q:** From -- from 2011 to 2012.

17 **A:** Yes.

18 **Q:** And --

19 **A:** And --

20 **Q:** -- on how -- how many occasions?

21 **A:** When -- when -- when you say "fitting,"
 22 that's a term that most non-practitioners don't
 23 understand the ramifications. The initial fitting
 24 comes from casting, devel- -- modifying the model,
 25 whether you do it with hands or by a CAD-CAM;

1 your 15 percent calculation, that you gained
 2 experience by working at SPS. But the experience
 3 that you gained at S -- SPS didn't help you to
 4 crunch the numbers in order to get that percentage;
 5 would that be a fair statement?

6 **A:** Not crunch numbers. It -- it helped me
 7 develop an opinion and a ballpark feeling. I'm the
 8 curious type and be -- having been called for expert
 9 cases before, I saw it as an opportunity to -- to
 10 learn -- learn myself and not just go teach. So I
 11 was constantly asking questions about what else are
 12 you doing besides what you're doing through SPS?
 13 What other knees are you using? How many out -- out
 14 of the number of amputees you see in a year,
 15 above-knee, how many microprocessor do you fit?
 16 Have you done any microprocessor ankles? Did I take
 17 statistical numbers? No.

18 **Q:** And -- and you don't recall those numbers
 19 as you sit here today, do you?

20 **A:** No.

21 **Q:** Okay.

22 **A:** Like I say, it helped me develop a
 23 professional opinion.

24 **Q:** Now, was your role at SPS in the field of
 25 a marketing agent?

1 developing a test or diagnostic socket and typically
 2 putting that together, constructing it with the
 3 components in a static alignment, a -- a starting
 4 point. You fit the patient -- we -- we always ask
 5 that they get at least to that point. We hopes
 6 [sic] that they would do a dynamic alignment.
 7 That's still fitting because what you see statically
 8 may change dynamically. And you may decide to make
 9 a change and go to another test socket.

10 On the better practitioners that we
 11 worked with, their foundation was good. We went in.
 12 We did the microprocessors, the high-end stuff, and
 13 we -- we -- we had a good result from the
 14 programming and the amputees walked great and we
 15 didn't have to do -- go backwards in fitting.

16 All too often, we walked in and found
 17 disaster starting points that defied the
 18 biomechanics built into the microprocessor needs.
 19 In other words, we couldn't program it because there
 20 were too many inherent errors in there. So we would
 21 go back -- I often stayed longer or went back and as
 22 a friendship service. It wasn't what SPS wanted me
 23 to do, but I couldn't help them get a result with
 24 the microprocessor if we didn't start over and
 25 refine their socket design and their alignment or

1 foundation.
 2 Q: Okay.
 3 A: So I did both.
 4 Q: So you weren't -- you weren't employed to
 5 do the initial socket measurement or casting,
 6 correct?
 7 A: Correct.
 8 Q: You would show up, hopefully after all
 9 this was done and after the patient had the socket
 10 in place, and you were to analyze how well the leg
 11 worked for that patient, generally speaking? I know
 12 it's not --
 13 A: Ideally speaking, I didn't have to
 14 analyze it. It was right.
 15 Q: Okay.
 16 A: But often I -- you know, you had to be
 17 tactful because you -- you're not there to criticize
 18 their work but, I'm sorry, I can't program this
 19 thing because your biomechanics are so shoddy, we're
 20 wasting our time.
 21 Q: And --
 22 A: We won't get a result, so.
 23 Q: And -- and how many patients do you
 24 believe during that one-year period that you
 25 actually saw and worked with for the lower-leg

1 association. We have regional meetings. We have
 2 manufacturers' workshops. We're -- we're constantly
 3 interfacing with each other. I've worked in
 4 numerous places. Microprocessors have been around
 5 since the '90s. That's getting close to 20 years
 6 that I'm --
 7 Q: Yeah, but I'm trying to figure out how --
 8 is there anywhere else you were able to crunch the
 9 numbers to actually --
 10 MR. VANGEISON: Well, he told --
 11 told you he talked to Hanger and you cut him off.
 12 So maybe that's another area.
 13 MR. GASTON: I'm -- I'm get- -- I'm
 14 -- I'm getting there next.
 15 MR. VANGEISON: Okay.
 16 Q: But where you actually were able to
 17 crunch the numbers for --
 18 A: I did not crunch numbers. A- -- again,
 19 I'm -- I'm telling you this is my opinion based on
 20 lots of years of experience and exposure and
 21 networking.
 22 Q: Okay. Who did you speak with at Hanger?
 23 A: Various area man- -- managers. I mean,
 24 lots of people.
 25 Q: Can I have some of their names, please?

1 device, lower leg --
 2 A: Lower-leg or above-the-knee?
 3 Q: I'm sorry. Above-the-knee.
 4 A: Because we also did foot and ankle.
 5 Q: Right. The -- the above-the-knee is what
 6 I'm --
 7 A: That was the predominant reason for us
 8 going out. That's the most commonly used of the
 9 microprocessors. So I'd say if I went to a hundred
 10 facilities, probably 70. Again, no hard data.
 11 MR. VANGEISON: Just -- just so the
 12 record is clear, you're talking 70 would have been
 13 above-the-knee?
 14 THE WITNESS: Above-the-knee.
 15 MR. VANGEISON: All right.
 16 THE WITNESS: Using -- utilizing
 17 some form of microprocessor knee. MPK, they call
 18 them.
 19 Q: Okay. Is there -- is there anywhere else
 20 that you claimed you got experience for which you
 21 base your 15 percent --
 22 A: Well, again, I'd mention to you that we
 23 network a lot as experts. We network in our a- --
 24 academy and asso- -- academy is our academic group
 25 that I've already told you about, AOPA, the trade

1 A: I can't remember all the names. We have
 2 a Hanger ed fair, which is like a national meeting.
 3 They probably bring in 1,500 practitioners.
 4 Q: Well, what --
 5 A: So to call certain names and say I spoke
 6 to that individual about this, I'd be guessing. But
 7 as I sat through a microprocessor course, obviously,
 8 the conversation is are you fitting these? How
 9 many? On who? What age group? It's just typical
 10 networking and interaction. And what goes along
 11 with that is I'm pretty much a sponge. If you look
 12 at my C.V., I've published. I've done lots of
 13 presentations. I've always been very curious. And
 14 I have pretty good mental recall.
 15 Q: What -- what I'm int- -- what I'm
 16 interested in --
 17 A: But I'm not a st- -- statistician.
 18 Q: What I'm interested in, sir, is for this
 19 case you testified that you reached out to some of
 20 your friends at Hanger to talk to them about the
 21 standard of care, to talk to them about the number
 22 of these devices that they are selling for amputees.
 23 What I'm trying to figure out -- can you tell me the
 24 name of one person who --
 25 A: Michael Tompkins would be.

1 Q: Michael Tompkins. And what -- he -- is
 2 he the area manager?
 3 A: No. He is the vice president of
 4 technology.
 5 Q: Vice president of technology, okay. And
 6 what did Michael Tompkins tell you?
 7 A: I didn't write it down.
 8 Q: What do you recall?
 9 A: We -- we discussed how frequently
 10 Hanger's -- how fast are they moving forward with
 11 their microprocessor program, as they call it,
 12 because Hanger is on the leading edge. If they're
 13 doing 30 percent, then I know there's no way the
 14 rest of the country is even close to them.
 15 Q: All right. And what -- what --
 16 A: But we didn't talk specific numbers. We
 17 talked about their program, who's involved. I
 18 happen to know that the Genium is the latest thing
 19 on their -- their agenda.
 20 Q: Is it -- is it To- -- Thompson?
 21 A: Tompkins.
 22 Q: Tompkins. And when -- what month did you
 23 speak to Mr. Tompkins?
 24 A: I speak to him frequently.
 25 Q: When -- when was the --

1 "standard of care," but is it becoming standard fare
 2 because I know that -- that the guy who wrote the
 3 report, Dale Berry, he pushes it. His job is to
 4 push MPKs and to help you get it approved by
 5 insurance companies. So they have an aggressive
 6 program, which puts them above and beyond most
 7 practitioners in this country, or other companies.
 8 Q: Did you ask him how many of the
 9 microprocessor knees he sold in 2012?
 10 A: He wouldn't know.
 11 Q: Did you ask him?
 12 A: No.
 13 Q: Did you want to know?
 14 A: If I need that data, I can find that from
 15 SPS individuals if -- if I need what Hanger bought
 16 because everything that Hanger buys has to be bought
 17 through SPS, even if it's bought directly from Otto
 18 Bock.
 19 Q: So all the microproc- --
 20 A: I can find that information if I wanted
 21 it. I -- I mentioned, I think, that I'm not a
 22 statistical person. I'm looking for ballpark feel
 23 and either rejection of my opinions or agreement.
 24 Q: Everything that Hanger sells has to be
 25 first purchased through SPS?

1 A: When the report --
 2 Q: -- the month that --
 3 A: -- was written, if we got into specifics
 4 about the report or what I was looking for -- and
 5 I'm not sure I told him. Actually, a lot of this
 6 information is HIPAA protected, so I don't talk
 7 about it in specifics. I -- I'm fishing. The
 8 report is dated 3/3, so probably -- I know he called
 9 me right around that time because it's my birthday.
 10 But I generally speak to him almost every month,
 11 every other month, some months three times.
 12 Q: And for -- and what information did you
 13 ask him specifically for this case? What did --
 14 what -- what did you tell him that you needed for
 15 this case?
 16 A: Well, I didn't tell him I was looking for
 17 specifics on a case. I asked him how much did he
 18 feel that my MPKs had pervaded the Hanger clinical
 19 program.
 20 Q: What is MPKs?
 21 A: Microprocessor knees.
 22 Q: How much that the MPK knees --
 23 A: Had become a -- a frequent part of the
 24 Hanger program. In other words, was it anywhere
 25 near -- I -- I didn't ask him to use the word

1 A: (Nods head affirmatively.)
 2 Q: And -- and what's --
 3 MR. VANGEISON: He wa- -- he was
 4 just nodding.
 5 Q: Is that -- is that true, --
 6 A: Yes.
 7 Q: -- sir?
 8 A: That's correct.
 9 Q: Okay. And is SPS an acronym for three
 10 words?
 11 A: It used to be Southern Prosthetic Supply.
 12 Q: Okay. All right. And where does --
 13 A: And there's a history there, but I won't
 14 bore you with it unless you want it.
 15 Q: Not really. But what I'm trying to
 16 figure out is --
 17 A: They are a division of Hanger.
 18 Q: They're a division of Hanger, okay. All
 19 right.
 20 A: Hanger has diversified. They're not just
 21 -- Hanger Clinic is their patient care prosthetic
 22 and orthotic care. They have about four or five
 23 divisions. SPS is their distribution -- their only
 24 distribution operation.
 25 Q: All right. So you didn't -- you didn't

1 ask Mr. Tompkins how many of the microprocessor
2 above-the-knee prosthetic devices that Hanger sold
3 in 2012?

4 **A:** He wouldn't know.

5 **Q:** I'm just -- again, you've got to --

6 **A:** No. I did not ask him.

7 **Q:** How about 2011?

8 **A:** No.

9 **Q:** 2010?

10 **A:** No.

11 **Q:** Do you know -- now, with the
12 microprocessor leg that we're talking about, is that
13 also called the C, the letter "C" as in "computer"
14 leg?

15 **A:** The C-Leg is one of about four or five
16 what I call legitimate microprocessors. There's
17 another three or four that claim the fame, but I'm
18 not a hundred percent sure.

19 **Q:** Okay.

20 **A:** Practitioners are doubtful about that
21 second tier.

22 **Q:** And are you aware of when Hanger first
23 started selling the C-Leg?

24 **A:** I'm sure that when -- when it first
25 became available in the late '90s.

1 the above-the-knee prosthetic devices that he sells
2 for above-the-knee amputations --

3 **A:** He doesn't sell them. He's the vice
4 president of the technology.

5 **Q:** Hanger. I'm talking about Hanger, his
6 group. And what -- what I'm talking about, when you
7 -- when you said you spoke to Mr. Tompkins and he
8 said that the microprocessor knees, as a part of
9 Hanger's program, didn't come up to even 25 percent
10 of the knees that Hanger is providing for
11 above-the-knee amputees. Did I get that right?

12 **A:** I didn't ask him -- I didn't offer a
13 percentage. I told him that --

14 **Q:** All right. Well, you offered me a per --

15 **A:** -- that I was dealing with this situation
16 -- I don't even know if I called it a case -- where
17 the claim was made that it was -- the C-Leg was the
18 standard of care. And certainly the C-Leg doesn't
19 have the market cornered. There's -- there's other
20 microprocessors that are newer and some, in my
21 opinion, are more advanced. But I was looking at
22 his feel for the integration of microprocessors
23 within their clinical mainstream, which he has a big
24 pulse on. He travels a lot from facility to
25 facility. You know, again, it's networking.

1 **Q:** Late '90s?

2 **A:** Yeah. They were in their current form.
3 They've changed their name from Hanger Prosthetics
4 and Orthotics to Hanger Clinic. But they were
5 publicly owned back then and their -- so their
6 aggressiveness would have been similar to what it is
7 today.

8 **Q:** All right. Now, when you asked Mr.
9 Tompkins how much did he believe that the
10 microprocessor knee had been in the forefront of the
11 Hanger program, what did he tell you?

12 **A:** That certainly it's growing a lot and
13 their -- that Dale Berry's office is very
14 aggressive, but he didn't feel like it was anywhere
15 near 25 percent of their typical clinical fittings.

16 **Q:** Now, you'd have to -- we have to explore
17 this a little bit more. We're talking about
18 clinical fittings for above-the-knee amputees,
19 correct?

20 **A:** Correct.

21 **Q:** So --

22 **A:** And theoretically, they're very rare.
23 But theoretically, hip disarticulations, hip
24 amputees could utilize microprocessor knees.

25 **Q:** Now, Mr. Tompkins told you that -- that

1 There's certain people that you would call that you
2 know have their -- the pulse on a certain legal
3 issue, and there's certain ones you wouldn't bother
4 because their expertise is somewhere else.

5 **Q:** And -- and Mr. Tompkins would know more
6 about this particular area than you would know,
7 correct?

8 **A:** Yes. Within Hanger, yes.

9 **Q:** Within Hanger, right. Now, --

10 **A:** Probably the one who knows the most would
11 be Dale Berry.

12 **Q:** Okay. And you said you weren't asking
13 for a percentage, but you gave me a percentage.
14 Where did you come up with the 25 percent?

15 **A:** He -- he -- that was his answer.

16 **MS. MAGUIRE:** That wasn't his
17 number.

18 **Q:** That was his answer?

19 **A:** Yeah.

20 **Q:** Okay.

21 **A:** He said certainly they haven't pervaded,
22 was the word I think he used, integrated, as even a
23 quarter of all the patients they see that are
24 above-knee or knee-requiring amputees.

25 **Q:** Okay. If he gave you the 25 percent, why

1 did you reduce it to 15 percent in your report?
 2 MR. VANGEISON: I think it's asked
 3 and answered, but you can tell him again.
 4 A: He said not even 25 percent, was his term
 5 -- terminology, not even 25 percent, which I take to
 6 mean it's less than. And I know, again, from
 7 experience, and my -- my feeling, where I've worked
 8 the past few years, the number of years I was at
 9 Duke and the types of opportunities we had there, we
 10 certainly saw more and younger traumatic amputees
 11 who were the types of candidates for microprocessors
 12 at Duke than about any other place that I could
 13 work.
 14 So based on my experiences, conversations
 15 with him, and knowledge that if Hanger is not even
 16 at 25 percent, the -- the rest of the profession is
 17 way behind, because they are. They're not nearly as
 18 aggressive. They don't have a Dale Berry working
 19 full-time to get insurance authorizations. It's
 20 also a cash flow thing. If you do a microprocessor
 21 and it's denied by the insurance company, you just
 22 got kicked in the teeth for 20,000 bucks or more.
 23 Q: And that's a big problem because if --
 24 if --
 25 A: Hanger has the cash flow. They can --

1 very intimidating and risky level.
 2 So -- and one of the requirements from --
 3 from day one for any hydraulic unit is you have to
 4 be able to walk at varying cadences or speeds. And
 5 microprocessors are just advanced hydraulic units.
 6 So if you don't pass that litmus test, which most
 7 above-knee amputees can't do -- a lot of them can't
 8 do. I'm not going to say most, but certainly the
 9 minority of the patients I've seen over the years
 10 can change walking speeds. The majority cannot. So
 11 they don't pass that litmus test.
 12 Q: All right. In order -- and is there
 13 certain levels of mobility that an amputee has to
 14 fall into in order to be even considered for a C-Leg
 15 or a Genium leg?
 16 A: There are Medicare-established and the
 17 insurance companies adopted a functionality program
 18 of zero through four.
 19 Q: Four, right.
 20 A: So there's five categories.
 21 Q: Okay.
 22 A: Why they didn't start with one, I don't
 23 know. Zero implies zero, so it makes sense. But
 24 they're called K levels.
 25 Q: Right.

1 Q: And if -- and if -- and if the -- the
 2 company submits the approval for the knee and it's
 3 denied, then that's not a good thing, is it?
 4 A: Well, if it's denied, you don't do it.
 5 Q: Right.
 6 A: And some insurance companies will give
 7 you preauthorization. Medicare is our benchmark.
 8 They will not give you preauthorization. So you're
 9 gambling if you put a C-Leg or any microprocessor on
 10 a Medicare patient.
 11 Q: Now, has it been your experience that the
 12 persons -- the majority of the persons who get
 13 C-Leg, that -- that the device is paid for by either
 14 Medicare or Workers' Compensation insurance?
 15 A: No. The C-Leg is -- they've -- they've
 16 done a very good job, more than the others, of
 17 making insurance companies understand their
 18 benefits. So with appropriate justification like
 19 their PAVET form, Hanger's PAVET form, which was,
 20 you know, referred to in the deposition by Greg
 21 Sachs -- that's an assessment form.
 22 There's also the amputee mobility
 23 predictor, which was a Ph.D thesis for Bob Gailey
 24 who's a doctor in physical therapy at Miami. That's
 25 an accepted assessment tool, but it's still at a

1 A: They're totally accepted across the
 2 board.
 3 Q: Okay.
 4 A: Any prosthetist that can't discuss it
 5 shouldn't be seeing patients.
 6 Q: And in order to be considered for a C-leg
 7 or a Genium leg, you'd have to be a level three or
 8 four category; would that be a fair statement?
 9 A: Three is --
 10 MR. VANGEISON: I object. To be
 11 considered by whom for a Genium or --
 12 Q: Well, in order for the -- the prosthetist
 13 whose evaluation -- evaluating the patient -- in
 14 order for the prosthetist to recommend a C-Leg or a
 15 Genium, the amputee would have to fall into a level
 16 three or level four category; would that be a fair
 17 statement?
 18 A: Yes. A K3 is the minimum requirement.
 19 Q: Okay.
 20 A: I don't want to elaborate too much, but
 21 there's controversy over who should be assigning the
 22 K levels. Obviously, it's in the prosthetist's
 23 interest to upgrade that K level if they want to put
 24 them in a C-Leg. I generally had physical
 25 therapists or physiatrists work with me in doing the

1 assessments to try to establish K levels.
 2 **Q:** Do you have any problem with the K level
 3 that was assigned by Mr. Sachs for Mr. Tolson?
 4 **A:** No, sir.
 5 **Q:** Okay. All right. Now, does Medicare
 6 keep statistics of --
 7 **A:** Oh, definitely.
 8 **Q:** Okay.
 9 **A:** And they would be available if I was a
 10 statistician or --
 11 **Q:** Right.
 12 **A:** -- or if I'm informed that I need to find
 13 that information.
 14 **Q:** You're anticipating my next question.
 15 Would it be fair to say that you did not go to the
 16 Medicare Web site to see how many of the
 17 microprocessor knees that Medicare approved for --
 18 in 2010, 2011 and 2012?
 19 **A:** I did not.
 20 **Q:** And -- and even in the Medicare Web site,
 21 they do have a distinction between the types of
 22 microprocessors for the knees, correct?
 23 **A:** I would think not because they basically
 24 put out a -- a policy that all microprocessors would
 25 be coded -- they would only accept four or five

1 **Q:** -- for the more advanced unit other than
 2 the C-Leg?
 3 **MS. MAGUIRE:** Objection.
 4 **A:** I'm sorry?
 5 **Q:** Is there a Medicare code for a more
 6 advanced leg other than the C-Leg?
 7 **A:** Not that I'm aware of, no. As a matter
 8 of fact, I know there isn't.
 9 **Q:** Okay. And can you --
 10 **A:** I have a piece of a paper -- we have so
 11 much data to keep up with, I -- I don't try to
 12 memorize codes. It just clogs my hard drive so I
 13 have cheat sheets so I can find those codes quickly.
 14 And I'm sure it's in Dale Berry's and Gregory Sachs'
 15 report.
 16 **Q:** Okay. And you did read Mr. Berry and Mr.
 17 Sachs' report for --
 18 **A:** Yeah. And I went to make sure that those
 19 codes were the correct codes, and they were.
 20 **Q:** They were, right?
 21 **A:** Yes.
 22 **Q:** Okay. All right. Now, the C-Leg has
 23 been around since the 1990's?
 24 **A:** '97 is when it was introduced to the
 25 United States.

1 codes. I can't remember the exact number. And the
 2 codes don't put brand names on them. So I don't
 3 know how they would have that data unless they did
 4 chart reviews on every single patient done to see
 5 whether it was a Plie or an Orion or a C-Leg. So
 6 the codes do not discriminate between the -- the
 7 various available microprocessors, so they would be
 8 all lumped together.
 9 **Q:** All lumped together?
 10 **A:** Including the Genium. The Genium --
 11 **Q:** So --
 12 **A:** -- is coded by Medicare and the insurance
 13 companies very clearly because it -- it was a kick
 14 in the teeth to a lot of people. It cost a lot more
 15 money to the prosthetist, so they basically said
 16 we're -- it's the same codes as the C-Leg, as the
 17 Orion, any micro -- MPK. These are the codes.
 18 Don't send in extra codes or wildcard codes. And a
 19 wildcard code is what some companies use with a 999,
 20 last three digits, meaning not otherwise designated.
 21 **Q:** Okay. Do you know the code for the
 22 C-Leg?
 23 **A:** Not off the top of my head.
 24 **Q:** Do you know the code for --
 25 **A:** I mean, I --

1 **Q:** And when was the Genium first available
 2 for any amputee?
 3 **A:** I don't know the exact date. I want to
 4 say sometime in 2010.
 5 **Q:** It's my understanding that the Department
 6 of the Defense asked for persons in the industry to
 7 consult with them to try to develop a more advanced
 8 knee for a military personnel who suffered amputees
 9 and that's how the Genium became developed.
 10 **A:** My understanding is similar. Typically,
 11 the -- the Department of Defense and DARPA and those
 12 guys, they -- they go to Johns Hopkins. They go to
 13 MIT. They go to Vanderbilt. And they tell them
 14 what they want. They deal with the engineers and
 15 the scientists. Companies that are aggressive like
 16 Otto Bock go to the DOD and say, "We want to work
 17 with you," and they're not going to tell them no.
 18 But they didn't go to Otto Bock to develop -- ask
 19 for the Genium.
 20 **Q:** So regardless of who went --
 21 **A:** And -- and --
 22 **Q:** -- to who, it was a -- it was a --
 23 **A:** It was a collaborative affair.
 24 **Q:** And were you -- did the DOD or anyone
 25 from the -- the military seek you out for your

1 advice in -- in the form of a consultant when they
 2 -- when the Genium was developed?
 3 **A:** No.
 4 **Q:** Have you ever worked as a consultant for
 5 the Department of Defense?
 6 **A:** Not the Department of Defense.
 7 **Q:** Have you ever worked as a consultant for
 8 any governmental agency with respect to the --
 9 providing them advice regarding the development of
 10 more advanced microprocessors for knee prosthetic
 11 devices?
 12 **A:** I was involved with -- invited as a -- a
 13 speaker and consultant for a symposium on advanced
 14 technology where we all submitted white papers.
 15 **Q:** When was that?
 16 **A:** But I -- I don't recall. It's on my C.V.
 17 **Q:** Do you remember --
 18 **A:** It would have been more than ten years
 19 ago.
 20 **Q:** Okay.
 21 **A:** But a lot of what we recommended in that
 22 symposium is what's happening today, fueled by Iraq
 23 and Afghanistan.
 24 **Q:** Okay. Did you originally retire from
 25 clinical practice around 2009?

1 Trade Commission broke up the original conglomerate
 2 in the '20s and they went into four different
 3 regions.
 4 And I had worked for Hanger Southeast
 5 owned by two families, and I knew the guy who had
 6 grown SPS into this unbelievably great operation.
 7 Well, the families gradually started selling back to
 8 the public Hanger. One of the -- the Hanger out of
 9 Washington, D.C. went public back in the '90s, maybe
 10 earlier, '80s. And gradually, the FTC sat back and
 11 watched as the whole conglomerate got thrown back
 12 together and is even bigger than ever.
 13 So Ron May, who was a friend of mine, was
 14 the president of SPS, and he had this dream and had
 15 kind of dallied with non-qualified people developing
 16 a clinical ed team. And when he found out I was
 17 available -- because I interviewed for management
 18 positions with Hanger, and the word got to Ron, and
 19 he said, "I'd love to have you at SPS helping build
 20 this team."
 21 Well, he retired. Didn't tell me he was
 22 going to retire, but he retired about half to
 23 two-thirds of the way through. And my new boss was
 24 totally different philosophy, very corporate.
 25 Hanger used that -- even though Hanger owned SPS

1 **A:** I took -- I had a hiatus.
 2 **Q:** Did it begin in 2009?
 3 **A:** The beginning of 2010.
 4 **Q:** 2010. And then from 2010 --
 5 **A:** Essentially I -- I wouldn't call it
 6 retire. My mother was dying in this area --
 7 **Q:** I'm sorry to hear that.
 8 **A:** -- and I was in a -- a practice, a
 9 partnership, and I actually caught my partner
 10 cheating on Medicare, which, as a partner, I'm just
 11 as liable as him and I'm not going to jail, and I'm
 12 not going to lose my Medicare privileges. So we
 13 duked it out and I had to walk away. So my mom
 14 dying, my consulting business was doing well; I
 15 stayed in the area until after she passed, and then
 16 that's when I went to SPS.
 17 **Q:** Okay. Was it -- the year -- was the
 18 year-long employment with SPS a contract position?
 19 **A:** No.
 20 **Q:** Okay. Why did you leave?
 21 **A:** I was recruited by a guy that I knew from
 22 the old days of SPS. It used to be a family-held
 23 organization, still Hanger. Hanger used to be
 24 family-held divisions. There were four of them.
 25 And gradually over the year -- the S -- the Federal

1 when I got there, they were still run by Ron and
 2 SPS, and I was on the leadership team. We made the
 3 decisions and Hanger stood in the background. When
 4 the -- the new president came in, Hanger used that
 5 as a perfect opportunity to insert itself more
 6 corporately and the whole culture changed.
 7 Add to that that I didn't like Atlanta or
 8 Alpharetta. I have a fishing boat up here in
 9 Morehead City. My wife was working up here because
 10 of her career. She's in a pension situation working
 11 for the state. She's on the tail end and is not
 12 going to lose the additional time for her pension.
 13 So all the things added up to where I just said I've
 14 got the team where it can go forward without me and
 15 I left. So --
 16 **THE VIDEOGRAPHER:** Counsel, we have
 17 -- we have about two and a half, three minutes left
 18 on the tape.
 19 **MR. GASTON:** Let's go ahead and
 20 switch the tape now.
 21 **THE VIDEOGRAPHER:** All right.
 22 **MR. GASTON:** Thank you.
 23 **THE VIDEOGRAPHER:** We are off the
 24 record at 1:04 p.m.
 25 [RECESS - 1:04 P.M. TO 1:06 P.M.]

1 THE VIDEOGRAPHER: We are back on
 2 the record at 1:06 p.m.
 3 Q: Okay. From the time you left SPS in
 4 2012, have you worked anywhere else?
 5 A: I started as a consultant a few months
 6 later at Advanced Brace & Limb. I was a contract
 7 employee. And --
 8 Q: Where -- where are they located, sir?
 9 A: Fayetteville, North Carolina.
 10 Q: What was your position there?
 11 A: I was the -- initially as a consultant.
 12 I was the fill-in prosthetist. Their prosthetist
 13 hadn't worked out and they had to get rid of him, so
 14 I was filling in. And I also did secondary or --
 15 orthotics. They had a -- a senior orthotist, but I
 16 -- his case load was big enough to where I -- I did
 17 that too. And I started building their business.
 18 And we agreed that we liked each other, so they
 19 offered me a staff position in February.
 20 Q: February 2013?
 21 A: Yes.
 22 Q: Okay. And --
 23 A: Because I would have gone there as a
 24 consultant in November of 2012.
 25 Q: And what staff position were you offered?

1 engineers. And I learned enough to where, in my
 2 opinion, the Plie was far and above, in my opinion,
 3 and -- and my -- my clinical team agreed with me.
 4 It offered more parameters and more fine-tuning
 5 programming capability than the others. But I did
 6 use others, the Orion.
 7 Q: You ever used the -- or have you ever
 8 fitted someone for a Genium knee?
 9 A: No, sir.
 10 Q: Is there any reason why?
 11 A: I haven't really had a reason for me to
 12 get certified in the Genium. SPS did not distribute
 13 those products for Otto Bock, so I wasn't trained --
 14 I was already -- had been trained in the C-Leg. But
 15 -- so I didn't have -- and the -- the time -- period
 16 of time I was there, I'm not sure where Otto Bock's
 17 training was. It was still known that the Genium
 18 was mostly military and -- what's the hospital, the
 19 military hospital in --
 20 Q: Walter --
 21 A: -- Washington?
 22 Q: Walter Reed?
 23 A: Walter Reed. And then the place in San
 24 Antonio, the Center for the Intrepid. For me to --
 25 at -- at Advanced Brace & Limb, I would have, one,

1 A: Chief prosthetist and certified orthotist
 2 or backup orthotist.
 3 Q: Okay. Since your employment with this
 4 new employer, have you actually fitted patients with
 5 the C-Leg?
 6 A: No. My preference was another
 7 microprocessor.
 8 Q: Okay. What's that?
 9 A: Plie from Freedom Innovations.
 10 Q: How do you spell that?
 11 A: Pli- -- P-L-I-E. It's a ballerina move.
 12 Q: I wouldn't know about that.
 13 A: I wouldn't either if they hadn't told me.
 14 Q: Plie. And who -- and who -- and who
 15 makes the Plie system?
 16 A: Freedom Innovations located in southern
 17 Orange County, California.
 18 Q: And why did you decide to go with the
 19 Plie processor?
 20 A: Well, after that year with SPS, I was --
 21 I was already C-Leg certified. I was already RHEO
 22 certified. I was already -- which is by Ossur. I
 23 was already certified in the Plie 1. And then I got
 24 exposed in greater detail to all of them and had
 25 access to their top clinical ed team and their

1 had to have a candidate, an amputee. I would have
 2 to take them and me and go to Minneapolis, take a
 3 four or five-day training course that would probably
 4 cost in the neighborhood of -- it -- they charged me
 5 when I did the C-Leg about 2- to \$3,000, plus costs
 6 while you're up there. So without having a
 7 candidate that would bring reimbursement, there was
 8 no point.
 9 Q: Okay. So it would cost you money to be
 10 educated. And would you be ed- -- what -- what
 11 company would you go to in Minnesota in order to be
 12 certified to fit the Genium knee?
 13 A: Otto Bock.
 14 Q: Otto Bock?
 15 A: Uh-huh. The same company as the C-Leg.
 16 Q: Okay. All right. Is the P-L-I-E leg
 17 more advanced than the C-Leg?
 18 A: In my opinion, yes. It offers more
 19 parameters, more programming options. They have,
 20 like, ten advanced parameters. It has a wizard that
 21 auto programs if you want to be lazy. Or you can
 22 modify some of those settings yourself if you see --
 23 it has a split screen with all kinds of graphics
 24 which show me forces and acceleration and knee angle
 25 and all kinds of data that is very helpful. It's

1 hard to learn how to read it and pick it up in -- in
2 real time because it's happening real fast. You
3 know how fast we walk.
4 But it gives me feedback to where I might
5 modify what the wizard set. The wizard is based on
6 taking it through normal speed walking, slow speed
7 walking, fast speed walking, and they have to have
8 enough consistent steps. They can't just be
9 shuffling behind a walker. They have to have good
10 steps to get a step count high enough to -- for the
11 data to be relevant to the program. Then it has ten
12 extra parameters that I can go into to fine tune
13 certain issues that may arise.

14 Q: All right. Let -- let's -- let's go back
15 a little bit. The C-A -- I'm sorry -- the C-Leg has
16 two programmable modes; is that --

17 A: Correct.

18 Q: And how many programmable modes does the
19 Plie have?

20 A: Well, the -- the -- the context in which
21 you're taking about them, they're -- that's not the
22 way you would compare them.

23 Q: All right. Why don't you -- why don't
24 you compare for me the differences between the C-Leg
25 and the Plie? I know you went over some of these,

1 Q: Foot over foot. The Plie can do a foot
2 -- step-over-step movement?

3 A: Step over step downhill. That's --

4 Q: How about --

5 A: -- that's all --

6 Q: How about --

7 A: -- any of them do.

8 Q: How about up hill?

9 A: No.

10 Q: The -- but the C-Leg, you can't -- the
11 C-Leg is not a -- a step-over-step --

12 A: Up --

13 Q: -- device, correct?

14 A: It is not.

15 Q: Okay.

16 A: But in your video, there are amputees
17 that are coordinated and strong enough to where they
18 can do it pulling on a rail. He didn't fool me.
19 I've seen -- he's the 1 percent amputee out there.

20 It's not the Genium in that video that's going --
21 it's not a power knee. Neither is the C-Leg, the
22 Plie. They all have what's called yield resistance.

23 So if you load it with the knee bent,
24 it's going to provide maximum resistance without
25 locking. It can only lock at 180 degrees. So if

1 but if you could just be more specific, if you
2 could. What -- what can a person with a Plie leg do
3 that a person with the C-Leg can't do?

4 A: Probably nothing in terms of absolute
5 function, but I can fine tune certain functions.

6 Now, to kind of go back to the C-Leg, --

7 Q: Explain all you want to.

8 A: -- they -- they have two modes.

9 Q: Uh-huh.

10 A: You use a key fob. One is the program
11 mode for normal walking, foot over foot, down
12 stairs, hills, ramps, stepping over people, all the
13 things that all the microprocessors do. If you go
14 into your secondary mode, it could be free swing for
15 riding a bicycle so you don't have to trigger the
16 knee to release it. It's -- it's released all the
17 time. But there is no stance or stability
18 enhancement in that mode. So when you get off your
19 bike, you'd better be careful.

20 Q: Okay.

21 A: Or you can program it to lock and not
22 bend at all. When I say the parameters or -- or
23 options for the -- for the Plie, I'm basically
24 programming for the same functions, variable walking
25 speeds, ramps, stairs, foot over foot.

1 you misstep and your knee is bent, in an
2 old-fashioned prosthesis, you'd buckle and hit the
3 ground in about a split second. It goes to high
4 yield to allow you stumble recovery, to allow you to
5 gently go down the stairs, to sit down with
6 resistance from the prosthesis. And if you're adept
7 and athletic, you can load that knee on the stair in
8 front of you, and because it's on high yield, if
9 you're strong enough to pull that -- that -- use
10 that butt muscle to extend that knee and pull on the
11 rail, which is what that guy did, you can go up
12 stairs foot over foot.

13 Q: Okay. But the C-Leg doesn't allow that
14 type of a movement, correct?

15 A: That particular amputee might -- could --

16 Q: I'm -- I'm talking about the C-Leg that
17 Mr. --

18 A: Doesn't --

19 Q: -- Tolson is wearing now doesn't allow
20 for step-over-step ambulation, correct?

21 A: I'll qualify that by what I answered
22 before. With the correct amputee, it does not
23 provide power. It does not -- none of them lift you
24 up the stairs. But because of the yield, you can
25 land on the tread in front of you with the knee bent

1 and it -- it -- you're basically strong enough to
 2 begin defying gravity. And that amputee in the
 3 right-hand video didn't weigh 230 pounds and he's
 4 pulling on the rail. All those things added
 5 together, that amputee could do in any
 6 microprocessor knee.

7 **Q:** Any microprocessor knee --

8 **A:** They all have stance yield when the knee
 9 is loaded in flexion, either from a misstep or
 10 intentionally, you know the method of going down
 11 stairs as you put your heel on there so that the
 12 toes never load. The toe has to be loaded for the
 13 knee to go into free swing. So if you don't load
 14 the toe and you start bending the knee to -- to put
 15 your other leg down the sta- -- the tread to the
 16 next step down, any of those knees goes into high
 17 yield, slow res- -- progressive lowering so that you
 18 don't buckle.

19 **Q:** All right. You're going to have to
 20 explain something to me. The C-Leg, the knee joint
 21 is either locked or free swinging, correct?

22 **A:** It's more than that.

23 **Q:** But, I mean, the -- the two methods --
 24 the two motions with the C-Leg, it's either free
 25 swinging or you can put it in a locked position,

1 If you were to stumble with that
 2 prosthesis coming through and -- and it doesn't
 3 reach full extension, it goes to maximum resistance,
 4 the same thing it provides, what we call yield, high
 5 yield, the same thing it does when you're walking
 6 down a hill, down a ramp or going foot over foot
 7 down stairs, sitting down. If you don't load the
 8 toe and create a force that the knee senses, it will
 9 not unlock or go into free swing.

10 **Q:** Now, does the C-Leg have the ability to
 11 go into a free leg -- to interchangeably go in
 12 between free leg and locking while you're walking?

13 **A:** I assume you could punch a fob button and
 14 it -- if you're in the middle of a swing and -- and
 15 got the knee extended, that it would lock on --

16 **Q:** But --

17 **A:** -- the next step.

18 **Q:** But I mean automatically.

19 **A:** If you're walking good, it's locking at
 20 heel strike. If the --

21 **Q:** If --

22 **A:** -- forces all align correctly, it's smart
 23 enough to know -- the most unstable part of an
 24 above-knee amputee's gait is when they're on a heel
 25 strike, the leg is in front of them. That's when

1 correct?

2 **A:** You can put it in the locked position
 3 with the key fob.

4 **Q:** Right.

5 **A:** If you -- that -- if you choose that to
 6 be your second mode. When you're walking, the C-Leg
 7 -- when the knee is fully extended and you land on
 8 the prosthesis in front of you with the knee fully
 9 extended, it knows where -- and all the knees are
 10 this way, all the microprocessors. It knows where
 11 it is in space. It knows the ground reaction
 12 forces. And it provides maximum resistance or maybe
 13 even lock, which essentially means the orifices in
 14 the hydraulic unit close off; fluid can't move so
 15 the knee won't bend. When you go through midstance
 16 and get onto the toe of any of these prostheses, it
 17 now knows that you're safe, that your other leg
 18 isn't -- when I'm on the toe of my left prosthesis,
 19 I'm generally landing on the heel of my right foot.
 20 So the prosthesis knows this from all the forces and
 21 all the sensory data. The -- the force sensors, the
 22 angle sensors, some are more sophisticated than
 23 others. Some have more of those than others. The
 24 Genium adds a gyroscope. But, anyway, when you load
 25 the toe, the knee now is in free swing.

1 all the forces are -- you know what torque is? It's
 2 like a -- a clock. It's clockwise or
 3 counterclockwise. When you land on your heel, all
 4 the forces are trying to push your knee forward.
 5 That's the time where amputees had to really
 6 struggle or they had to be mechanically aligned so
 7 stable that their gait wasn't really smooth. That's
 8 the time when they fell most of the time. When
 9 you're on your toe and you go -- if you -- if you've
 10 ever watched an amputee in a social setting, they'll
 11 put their good leg in front of them and they're
 12 loading --

13 **Q:** And drag --

14 **A:** -- they're loading their toe, which
 15 reverses the torque, pushes the knee back against
 16 the extension stop. So it locks on a good step. It
 17 knows -- all those microprocessors do -- it knows if
 18 you misstepped, like you caught your toe in high
 19 grass or on a twig or shag carpet and it'll go to
 20 high yield so you don't bust your face.

21 **Q:** All right. What -- what I'm trying to
 22 figure out, it's -- it's -- it's a real more
 23 simplistic approach. When Mr. Tolson walks with the
 24 C-Leg, does he walk with it locked or does he walk
 25 with it in free stance, free swing?

1 **A:** According to testimony, the -- the video,
 2 he was not in his C-Leg. But according to Sachs'
 3 testimony and to Tolson's, he walks with it in
 4 normal mode, which means whatever it's been
 5 programmed for him to do. So it's in free swing
 6 when he steps correctly. It's in high yield when
 7 he's going down stairs foot over foot, high yield
 8 sitting down, high yield going down ramps, high
 9 yield when he stumbles. But when he steps
 10 correctly, loads the toe, the other foot is out in
 11 front of him, the forces -- the forces are gathered
 12 and the knee is so -- reacts so smart, it opens all
 13 the ports in the cylinder in the hydraulic unit,
 14 provides swing phase resistance, which is minimal --
 15 much less resistance.

16 **Q:** Now, if Mr. Tolson were to take a couple
 17 of steps and then stand in one place, does the knee
 18 know to automatically lock in order -- does C-Leg
 19 know automatically to lock to give him more
 20 stability while he's standing in one place, or does
 21 he have to man- -- manually lock it?

22 **A:** If he wants a mechanical lock that you
 23 cannot break, he has to do it with the fob, and that
 24 has to be the second mode. If the -- the second
 25 mode was for free swing to ride a bicycle, he

1 order to give the patient more stability and the
 2 Genium knows when the patient then decides to take
 3 the next step to allow the knee to swing.

4 **A:** I think the terminology is the same.
 5 Lock is -- is misapplied in that situation. But
 6 it's not a mechanical lock to where -- it's a --
 7 it's a hydraulic microprocessor controlled. To lock
 8 that knee, all you got to do is close all the ports.
 9 So if the forces are right on the C-Leg, the ports
 10 are closed and it won't --

11 **Q:** It won't move?

12 **A:** It's essentially locked. It's not the
 13 same as when you take that fob and mechanically lock
 14 it. The Genium doesn't really offer anything
 15 functionally that the C-Leg doesn't offer.

16 **Q:** Huh. And is that for all aspects of the
 17 walking?

18 **A:** Well, it has six modes. The C-Leg has
 19 two. None of the others use what they call modes.
 20 But I have much more programming depth and
 21 capability with a Plie, much less with the Orion.
 22 So they're all -- they all provide the same basic
 23 formula, that if you're walking good, it's
 24 hydraulically locked at heel strike. If you
 25 stumble, high-yield resistance. Going down stairs,

1 wouldn't have that manual lock. When he's standing
 2 with the knee extended, the forces are such that it
 3 knows that he doesn't want to bend his knee unless
 4 he loses his balance.

5 Let's say you're fishing on a rocking
 6 boat and you're standing there. You know, one
 7 moment you're pitched forward a little bit. The
 8 next moment, you're pitched back. Now your weight
 9 is behind your knee. On a normal prosthesis, you'd
 10 be on your butt. On a C-Leg or any other
 11 microprocessor, it senses that this isn't a normal
 12 step. He's not stable anymore. Go into high yield
 13 resistance or safety mode.

14 **Q:** All right. My question was more
 15 specific. I'll ask it again because I don't --
 16 maybe I'm not asking it correctly. When Mr. Tolson
 17 is walking, if he stops with his left leg that has
 18 the prosthetic device, the C-Leg, does the leg know
 19 to lock and to give him more stability before --

20 **A:** No.

21 **Q:** -- he makes the next step?

22 **A:** It is not a mechanical lock unless he
 23 pushes the fob.

24 **Q:** Now, my understanding is that the Genium
 25 does -- however, does allow that, that locking in

1 ramps, high-yield resistance. Sitting down,
 2 high-yield resistance. They're all -- and the
 3 Genium doesn't bring anything more to the table
 4 other than a lot more gadgetry and more sensors. It
 5 has a gyroscope, so it -- it has a better sense of
 6 where it is in space, but that's not going to
 7 provide more function.

8 **Q:** Does the Plie provide more function than
 9 the C-Leg?

10 **A:** More -- more function in terms of des- --
 11 activities or the things I've been describing, no.
 12 Better fine-tuning of those activities in, let's
 13 say, one of the issues going down the steeper the
 14 ramp on microprocessors, the jerkier it gets. It
 15 doesn't lower them enough. They have to -- they
 16 have to get their good leg out faster. The Plie
 17 allows me to fine tune that particular parameter.

18 **Q:** And have you found that the Plie has
 19 enough advancements over the C-Leg to the point
 20 where you will recommend a Plie for a patient who
 21 you believe can benefit from that?

22 **A:** The two patients that I saw that I fit
 23 with Plies initially, they were middle-aged strong
 24 ex-servicemen from Fort Bragg, and I -- I don't want
 25 to go into too much detail. One of the things that

1 has been discovered or over time we've -- we've
 2 learned about the C-Leg is it's a very safe leg and
 3 it makes amputees lazy. And they have found -- the
 4 word has -- has spread, you know -- whether there's
 5 a journal article on it or not, I don't know. I
 6 know that Bob Gailey has talked about it, and he's
 7 -- he's a Ph.D. expert that works with amputees.
 8 But they found gluteal atrophy, butt muscle atrophy
 9 in C-Leg users. It -- it is a very stable and safe
 10 knee.

11 So if I've got an amputee that needs that
 12 safety, I'm going to recommend it. If I've got an
 13 amputee that I can set the knee up alignment-wise to
 14 be more -- require more voluntary control to where
 15 the amputee isn't just being lazy and relying on the
 16 -- on the microprocessor and the hydraulics but
 17 they're going to actively extend their muscles but
 18 they need the extra benefits of going down stairs,
 19 ramps, you know, all the other things; they need
 20 stumble recovery if they mess up but they're going
 21 to be using their muscles more to stabilize, then
 22 I'd recommend the Plie.

23 The other thing that you need to know and
 24 probably do is all the other microprocessors allow
 25 the choice of any foot. I can use an Otto Bock foot

1 Genium allows that. I didn't understand why that
 2 claim was made because I've seen amputees on other
 3 microprocessors walk backwards. I can't s- --
 4 recall that I've seen someone on a C-Leg walk
 5 backwards.

6 Q: Okay. My question is, is the C-Leg, was
 7 that designed for backward walking --

8 A: I've never seen --

9 Q: -- motion?

10 A: -- that claim. I -- I wouldn't know. It
 11 -- it is a specific claim of the Genium. It is not
 12 a specific claim of the C-Leg.

13 Q: Do you consider that a major difference
 14 between the two?

15 A: Not really because I've seen amputees,
 16 above-knee amputees walk backwards on other
 17 microprocessors.

18 Q: Have you seen other amputees walk
 19 backwards on a C-Leg?

20 A: No.

21 Q: Okay. What are the other microprocessors
 22 that you've seen oth- -- other amputees walk
 23 backwards with?

24 A: Definitely the Plie. Again, I think it's
 25 like your amputee going up stairs. I'm not sure

1 on a Freedom Innovations knee. Otto Bock restricts
 2 me to their feet, and that affects my decision-
 3 making.

4 Q: Now, so you mentioned something very
 5 important, that you said if the patient's safety --
 6 for the patient's safety requires a higher level of
 7 a knee processor, then you would recommend that for
 8 your patient, correct?

9 A: The C-Leg will make you lazy, but it is
 10 known to be a very safe -- I can do the same thing
 11 with a Plie and I might still use the Plie.

12 Q: But is patient safety one of the
 13 considerations you --

14 A: That's always a --

15 Q: -- as a --

16 A: -- consideration. I'm sorry.

17 Q: You've got to let me fin- -- that's okay.
 18 You -- you knew my question. Let me ask it again.
 19 Is patient safety one of the considerations that you
 20 as a prosthetist takes into account when
 21 recommending a particular knee for your patient?

22 A: Yes.

23 Q: Okay. Now, is the C-Leg designed to
 24 allow a patient to walk backwards?

25 A: I know that it's been stated that the

1 it's the brand name. I think it's the person
 2 wearing it. I want to say the Orion, which is an
 3 Endolite product. It's never -- to my knowledge in
 4 all my years of experience, it's not been a request
 5 that amputees come to me saying, "Hey, I want to
 6 walk backwards." So it's never been in the
 7 forefront of my mind as one of the major issues in
 8 alternative de- -- decision-making and
 9 recommendations.

10 Q: Does a patient's employment requirements
 11 have a bearing on the type of knee that you will
 12 recommend for them?

13 A: Definitely.

14 Q: Okay. Are you aware of the requirements
 15 for Mr. Tolson's employment?

16 A: Yeah. Basically a number of things.

17 Q: He's a law-enforcement officer, correct?

18 A: Yes.

19 Q: Okay.

20 A: He's driving. He's walking. He's
 21 opening and closing things and he kneels at the
 22 firing range, and he's at a desk.

23 Q: Are you aware that the Genium was
 24 developed to be utilized by law-enforcement officers
 25 because it allows them to walk backwards?

1 **A:** I've never seen that claim. So, no, I'm
 2 not aware of that.
 3 **Q:** Okay. Did you do any research on the
 4 Genium to determine what it was actually capable of
 5 doing or some of the persons for which can take
 6 advantage of the Genium, particularly with the
 7 ability of a patient to walk backwards with the
 8 Genium?

9 **A:** Well, obviously, I've been to the
 10 meetings where I've seen the -- you know, their new
 11 product displays. I've been to their exhibits.
 12 I've listened to the -- what they tell make it'll
 13 do, the sales pitch, if you will. Or -- and I've
 14 also -- that's the rep -- the sales reps. I've also
 15 spoken with the clinicians or clin ed team, which
 16 Otto Bock has a huge clinical ed team. And,
 17 obviously, when you first start hearing about new
 18 products, you go to their Web site and you read what
 19 they claim. In terms of what it brings to the
 20 table, a- -- an additional function compared to the
 21 other microprocessors, I don't see it.

22 **Q:** You don't see a bene- -- any significant
 23 benefit between the Genium versus the C-Leg?

24 **A:** If walking backwards is a -- is a benefit
 25 and the C-Leg won't allow that. Again, I think some

1 **A:** Well, it hasn't been brought to my
 2 attention, or I haven't -- I don't know for a fact
 3 that he can't walk backwards in the C-Leg. And we
 4 don't know for a fact that he could walk backwards
 5 in -- in a Genium because they've never -- they --
 6 if they were really interested, they could have done
 7 a trial use. Otto Bock will provide a knee and let
 8 you do a trial run. So if -- if this has already
 9 occurred and we know this for a fact, then I need to
 10 know that.

11 **Q:** Okay. If Otto Bock provided a trial knee
 12 for Mr. Tolson, the Genium, which is what Mr. Sachs
 13 has recommended, and if he was able to walk
 14 backwards with that knee and can't with the C-Leg,
 15 do you believe that that would be a benefit of
 16 having the Genium leg?

17 MS. MAGUIRE: Objection.

18 MR. VANGEISON: Objection, but you
 19 can answer.

20 **A:** Again, I'm not an expert in law
 21 enforcement, but my understanding of his job is that
 22 it's highly unlikely he's going to be encountering
 23 somebody in a shootout. And that's the only way I
 24 can imagine walking backwards would be a benefit.
 25 So I -- I don't see the benefit.

1 of that is the amputee. I've got amputees, you
 2 could put them in the Genium and they couldn't walk
 3 backwards. And I've got amputees that could walk
 4 backwards in just about anything you put them in.
 5 So a large part of these factors is not the brand
 6 name or the, quote, "that it's an MPK." It's what
 7 is the amputee capable of doing.

8 **Q:** Well, do you believe from a safety
 9 perspective that it's beneficial for law-enforcement
 10 officers to be able to move backwards, walk
 11 backwards?

12 MS. MAGUIRE: Objection to the term
 13 "law-enforcement" --

14 **A:** I'm --

15 MS. MAGUIRE: -- "officer."

16 **A:** -- not an expert in that area, so I -- I
 17 have no real opinion.

18 **Q:** Okay. In this case, is your opinion that
 19 Mr. Tolson does not need the Genium, is it based at
 20 all as to whether or not it's for his own safety; it
 21 would be better for him to be able to walk backwards
 22 while he was acting as a law-enforcement officer?

23 MS. MAGUIRE: Objection.

24 MR. VANGEISON: Objection to

25 foundation. You can answer the question.

1 **Q:** Why -- why do you say that it's highly
 2 unlikely that he would be -- not be involved in a
 3 shootout?

4 **A:** He's in the Social Security
 5 Administrative building, isn't he?

6 **Q:** A federal building that employs federal
 7 employees. And you believe the chance of him being
 8 involved in a shootout or facing an armed suspect is
 9 zero?

10 MS. MAGUIRE: Objection.

11 **A:** I'm not going statistically there.

12 **Q:** Well, I'm trying to figure out why --

13 **A:** I'm just saying --

14 **Q:** -- why you -- why you believe that it's
 15 highly unlikely that he would ever be involved in
 16 those type of situations.

17 **A:** It's just my opinion.

18 **Q:** Based upon what?

19 **A:** I mean, I would think the federal office
 20 buildings would be about as safe as it gets. He
 21 described his day-to-day activities in his
 22 deposition. Nowhere in any of that did he talk
 23 about conflict, apprehension, any of that kind of
 24 stuff.

25 **Q:** But -- but you are aware he wears a

1 sidearm?
 2 **A:** Oh, yeah.
 3 **Q:** And he's a --
 4 **A:** All security guards do.
 5 **Q:** And he's a law-enforcement officer,
 6 police officer?
 7 **MS. MAGUIRE:** Objection.
 8 **A:** I didn't know --
 9 **MR. VANGEISON:** Objection.
 10 **A:** -- he was a police officer.
 11 **MR. VANGEISON:** Foundation.
 12 **MR. GASTON:** Okay.
 13 **MR. VANGEISON:** He's not a police
 14 officer.
 15 **THE WITNESS:** No, he's not.
 16 **Q:** So you've fitted two persons with the
 17 Plie?
 18 **A:** Oh, I've fit way more than that just more
 19 recently in my practice in Advanced. A year with
 20 SPS, I probably taught the Plie more than any of
 21 them, so multiple fittings for that.
 22 **Q:** Okay.
 23 **A:** Some having to back up and start from
 24 scratch and some just doing the programming and
 25 alignment.

1 has been what's on his backup prosthesis or his
 2 activity level, an SNS hydraulic.
 3 **Q:** Okay. So in order for a microprocessor
 4 knee to meet your definition of the standard of
 5 care, what frequency of recommendation would you
 6 need to see in the industry in order for you to
 7 raise that particular microprocessor knee to the
 8 standard of care?
 9 **A:** I would expect --
 10 **MS. MAGUIRE:** Objection.
 11 **A:** -- at least half of all amputees being
 12 fitted were receiving that, 50th percentile or
 13 higher, obviously.
 14 **Q:** Now, are you including in the amputees
 15 the levels zero, one and two?
 16 **A:** No. They're -- that's not Mr. Tolson's
 17 category.
 18 **Q:** Okay. So was -- then it's not all --
 19 **A:** They're -- because they're obviously not
 20 going to get it.
 21 **Q:** It's not 50 percent of all amputees?
 22 **A:** No, because it's --
 23 **Q:** Okay. So let's -- let's go back a little
 24 bit. So it would be 50 percent of all amputees who
 25 would qualify for a microprocessor knee, correct?

1 **Q:** And how do you define standard of care
 2 within the prosthetic industry that you work in?
 3 **MR. VANGEISON:** Objection. Are we
 4 talking about standard of care with regard to
 5 malpractice or whether something is more often than
 6 not used?
 7 **MR. GASTON:** Well, I'm talking about
 8 the standard of care that Mr. Schuch referenced in
 9 his report. That's what I'm talking about, that
 10 standard of care.
 11 **A:** Well, standard of care, I've been down
 12 this road before, and in the medical profession,
 13 it's very hard to define. I think it's based on
 14 ethics, experience, the norm, what's acceptable.
 15 **Q:** Are those the definitions that you used
 16 for the standard of care that you mentioned in your
 17 report?
 18 **A:** The standard of care reference that I'm
 19 making in my report is frequency of recommendation.
 20 I'm not talking about the -- the broad spectrum of
 21 standard of care, but the standard recommendation,
 22 prescription provided and delivered and paid for.
 23 Need for pri- -- amputees in Mr. Tolson's category
 24 is not the C-Leg. It's the exception, not the
 25 standard. For years the standard for those amputees

1 **A:** A K3 or higher amputee.
 2 **Q:** So it has to be K3 or K4. So -- and what
 3 knee do you believe fits the standard of care that
 4 you have defined?
 5 **MR. VANGEISON:** He -- he -- asked
 6 and answered, but you can --
 7 **Q:** What -- what knee? What microprocessor
 8 knee?
 9 **A:** Well, it's not a microprocessor. I -- I
 10 don't think any of them are there. It's the --
 11 what's -- it's called an SNS, swing and stance,
 12 hydraulic knee. The original -- there's three of
 13 them that I'm aware of. There's probably some
 14 knockoffs. The original one was developed by a
 15 German physicist who worked on the Manhattan Project
 16 and after the war felt guilty and helped developed
 17 the first SNS called the Mauch. His name was Hans
 18 Mauch.
 19 **Q:** Back in 1940, right, '4- --
 20 **A:** Yeah.
 21 **Q:** -- '49, somewhere around there?
 22 **A:** And when he died and his daughter took
 23 over the company, as frequently happens, all the
 24 employees bolted and went across the street and
 25 formed a company called K Tech. The patent had run

1 out and they duplicated it ver- -- I mean,
 2 identical. K Tech got bought out by Endolite, which
 3 is a British company that also has a microprocessor.
 4 They actually developed a microprocessor that never
 5 made it to the States called the intelligent knee.
 6 Even -- it was -- it was invented and designed in
 7 Kobe, Japan. But they -- they sold that in Europe,
 8 the IP, the intelligent prosthesis, but it had
 9 issues.

10 Q: So --

11 A: When they brought their stuff to the --
 12 to the United States, their manufacturing processes
 13 got better and they're respected now. But the
 14 British weren't well known for their quality
 15 assurance. But, anyway, there's a K Tech and then
 16 -- I think also the Mercury. I think that's an
 17 Endolite product that is along the same lines. And
 18 then there's probably a half a dozen knockoffs.

19 Q: For persons, in your experience, who are
 20 above-the-knee amputees at a level K3 or K4, how
 21 many C-Legs have you recommended for them
 22 percentage-wise?

23 A: Of K3/K4, how many C-Legs?

24 Q: Yes, sir.

25 A: I really don't know the number. The

1 '97. The Mauch -- which, I'm going to call them all
 2 the same. They're SNS technology. So it doesn't
 3 matter of the label. Whether it's K Tech, Mercury,
 4 Mauch, thousands and thousands and thousands of
 5 those things have been fit over the years. It was
 6 standard issue for veterans. Most of the places I
 7 went, I was the leader and I got to choose my
 8 patients, and I -- I obviously enjoyed working with
 9 young, active patients. I did have older patients
 10 that I used what's called stance-locking knees, also
 11 known as safety knees, a much simpler design, safer
 12 design. But that was for my patients that couldn't
 13 vary their walking speed. Remember, to get a
 14 hydraulic, you got to have variable cadence.

15 Q: Well, what I'm trying to figure out is
 16 since 1997 to today's date, for each year, what is
 17 the percentage of the amputees in the K3/K4 level
 18 that have been si- -- fitted with C-Legs versus the
 19 other --

20 A: I'm a --

21 Q: -- legs?

22 A: -- a prosthetist. I'm not a
 23 statistician. I have no -- no idea. I know what I
 24 hear. I know what I -- you know, the -- the people
 25 you talk to. I know the clinics I've worked in.

1 first one I did was d- -- a bilateral amputee in
 2 2001 at Duke. When I was at Duke, I did a fair
 3 amount. What -- what does that number entail? I
 4 don't know. I don't keep statistics. Obviously,
 5 when I went to S -- when I went to the partnership
 6 company, our patients were predominantly K2. I fit
 7 probably three C-Legs there and one RHEO.

8 Q: And how many of the K Tech legs have you
 9 fitted?

10 A: Counting the amount and the K Tech,
 11 probably well over a hundreds.

12 Q: A hundred?

13 A: More -- more than a hundred. Whether
 14 it's approaching 200, I don't know. I did a lot of
 15 those back in the old days before I ever even got to
 16 Duke.

17 Q: Well, what I'm trying to figure out is if
 18 you believe that the -- the standard of care with
 19 respect to the frequency of recommendation has to be
 20 at least 50 percent in order for you to consider
 21 that leg the standard of care in the industry, do
 22 you have any statistics as to for the amputees that
 23 are of the K3 and K4 level, how many of them
 24 actually received a C-Leg versus the K Tech leg?

25 A: Well, the C-Leg didn't come out until

1 When we go to clinics where you have five different
 2 companies represented, like at the VA, I know what's
 3 prescribed. I may not get that amputee. But we --
 4 we're -- we have a pulse on the trends in our
 5 profession.

6 Q: Does the frequency of recommendation have
 7 to do with whether the patient -- whether the knee
 8 that you recommend is going to be paid for by some
 9 -- by some type of insurance or by Medicare or by
 10 VA?

11 A: In the older days, no. Today, much more
 12 so. And then temper that a little bit with when the
 13 C-Leg first came out, people were very timid because
 14 it wasn't getting paid for. Now the C-Leg does get
 15 paid for. So that -- that equation has been watered
 16 down or is not as much -- you know, it's not as I-
 17 -- weighted a factor.

18 Q: But it's -- it's -- it's one of the
 19 factors you consider when determining standard of
 20 care for a patient, correct?

21 A: No. I don't determine standard of care
 22 for a patient by reimbursement. I might have my
 23 desired standard of care altered, depending on where
 24 I'm working and their -- their policies and
 25 procedures. But if there's any risk, I'm

1 conservative.
 2 **Q:** Okay.
 3 **A:** But my standard of care is what -- what
 4 do I think is normal for this patient? What would
 5 most patients of this nature get if they walked into
 6 a VA clinic with five prosthetists or five companies
 7 represented and a doctor from the VA, if they walked
 8 into a Duke rehab clinic where you have a physician,
 9 a bunch of therapists, a bunch of prosthetists?
 10 That's what my standard of care is based on.
 11 **Q:** Do you find the standard of care to be a
 12 nationwide standard, or is it different from
 13 locality to locality?
 14 **A:** I think it's -- my experience has been
 15 it's pretty much nationwide with -- with a lot of
 16 different levels in --
 17 **Q:** All right. Well --
 18 **A:** -- in all locations, with Hanger being,
 19 by far, the most aggressive because they can afford
 20 to be.
 21 **Q:** What I'm trying to figure out is why
 22 would your standard of care be modified based upon
 23 who you were working for at a particular time?
 24 **A:** Well, when I worked for Duke University
 25 Medical Center, reimbursement wasn't our number one

1 order a lower level of knee for the patient?
 2 **A:** Yeah, but -- but most of those occasions
 3 were when I was unsuccessful in obtaining approval
 4 from the insurance company.
 5 **Q:** And is it your -- in your report you
 6 identified a knee that's called the Xenium,
 7 X-E-N-I-U-M.
 8 **A:** I think that was a mistake on my part.
 9 The -- the --
 10 **Q:** Did -- did --
 11 **A:** -- Genium has an X3 for the military.
 12 That's the one that Sachs talked about that looks
 13 Batman-like.
 14 **Q:** It just -- just came out -- just released
 15 to the public in the last year, correct?
 16 **A:** It -- I didn't know if it had been
 17 released to the public.
 18 **Q:** Well -- well -- well, you --
 19 **A:** That was the one that was developed more
 20 closely --
 21 **Q:** Right.
 22 **A:** -- with that relationship you talked
 23 about.
 24 **Q:** Right. And -- and X3 is the -- is the
 25 newest advanced knee above and beyond the Genium,

1 priority. Patient care. So if I thought the
 2 standard of care was a microprocessor, I did it. If
 3 I didn't get paid, we could afford it. When I went
 4 to work with my partnership, he didn't like that
 5 standard of care, you know, because if we didn't get
 6 paid, it killed us.
 7 **Q:** So your standard of care would be
 8 modified based upon whether or not you get paid for
 9 your recommendation?
 10 **A:** My standard of care would not be
 11 modified, my --- my ch- -- choice of care. My
 12 standard may be here and I would put that in my
 13 notes, that, you know, barring -- you know, barring
 14 the potential financial implications, this patient
 15 deserves a C-Leg. But because of its coverage and
 16 not being able to get it preapproved, I'm -- I'm
 17 going to opt for -- and -- and I don't think that's
 18 a breach of the standard of care. I'm going to the
 19 next level down.
 20 **Q:** Okay. So are you telling me for patients
 21 that you've fitted with prosthetic devices,
 22 above-the-knee amputations, you have in the past
 23 recommended a microprocessor knee for that patient
 24 because you believe that was the standard of care
 25 but because of financial considerations could only

1 correct?
 2 **A:** Yeah. The -- the features it brings are
 3 what they call waterproof, which I -- I question
 4 highly, and higher impact resistance, higher shock
 5 resistance.
 6 **Q:** Well, in -- in your report when you
 7 reference the Xenium, were you talking about the X3?
 8 **A:** I think he confused me. I was not
 9 talking -- I -- I was talking about the Genium.
 10 **Q:** You're talking about the --
 11 **A:** Or I made --
 12 **Q:** -- Gen- --
 13 **A:** -- a spelling error.
 14 **Q:** Okay. So your -- every time in your
 15 report the word X-E-N-I-U-M is mentioned, you meant
 16 to say Genium, correct?
 17 **A:** That's correct.
 18 **Q:** Okay. Got you. All right.
 19 **A:** Like I say, when I read about the X3, I
 20 think it confused me on -- I had an interview where
 21 they asked me if I'd fit the Xenium 3. They -- they
 22 were likewise confused.
 23 **Q:** All right. Even though you say the
 24 Genium on page 2 of your report is the rare extreme
 25 selection for treatment of these amputees, would it

1 be fair to say you don't have any statistical basis
 2 to support that conclusion?
 3 **A:** Not at this time, no.
 4 **Q:** Okay. All right. And one statement you
 5 said, "Unlike the C-Leg, the Xenium" -- and you
 6 meant to say Genium -- "is not tried and proven
 7 successful for Mr. Tolson"; is that correct?
 8 **A:** I have no evidence that it has been.
 9 **Q:** Right. But that's not a reason that you
 10 don't believe he should receive the Genium, do you,
 11 simply because he hasn't had it yet and hasn't tried
 12 it yet?
 13 **A:** My experience with over 40 years and lots
 14 of advice from senior mentors, clinicians, is when a
 15 patient is successful -- which we've documented;
 16 it's been testified to; he's gotten equipment that's
 17 beyond the standard of care, above and beyond the
 18 standard of care; he's successful with that -- my
 19 experience is you don't just keep changing because
 20 something new comes out.
 21 If he's unhappy with what he's got or
 22 he's -- he's pointing out issues that he has, that
 23 he can't achieve certain things he's looking for,
 24 then, yeah, maybe you reconsider. But I don't see
 25 that as being the case. They've all testified that

1 MR. VANGEISON: K --
 2 **A:** -- but with that --
 3 MR. VANGEISON: C or K?
 4 THE WITNESS: K-level. K4? What --
 5 MS. MAGUIRE: You said C.
 6 MR. VANGEISON: Yeah.
 7 THE WITNESS: -- what did I say?
 8 MR. VANGEISON: You said C.
 9 THE WITNESS: K4.
 10 **A:** With the K4, it implies not only more
 11 function, but more impact, and they're careful that
 12 -- that it -- it's not designed for higher impact.
 13 **Q:** So it's not designed for running, the
 14 C-Leg?
 15 **A:** No.
 16 **Q:** Can Mr. Tolson ride a bike with a C-Leg?
 17 **A:** I think one of the things he said in his
 18 deposition testimony of things he can't do is ride a
 19 bike, but that -- if he can't, that would be him,
 20 not because of the C-Leg because it has a mode that
 21 is programmable for free swing. And one the
 22 examples they give that you would use free swing
 23 would be riding a stationary or mobile bike.
 24 **Q:** Can a person bowl with the C-Leg?
 25 **A:** I don't see why not.

1 he's been returned to his pre-amputation level of
 2 function.
 3 **Q:** Can Mr. Tolson jog?
 4 **A:** Hi- -- according to testimony from Sachs,
 5 yes. According to Mr. Tolson's own testimony, two
 6 things, "I haven't been taught how to do that yet"
 7 and -- I thought I wrote it down. I thought he said
 8 -- on -- on Sachs' deposition, page 35, he said,
 9 "Could someone like Mr. Tolson be a jogger?" He
 10 said, "Yes."
 11 **Q:** Have you seen --
 12 **A:** Oh, here's my notes. "Swim, I swam all
 13 my life." Blah, blah, blah. "I fell on the deck.
 14 Supposed to be getting trained how to run," quote,
 15 "but I never took that step yet." So he apparently
 16 does not. And whether or not he's capable remains
 17 to be seen.
 18 **Q:** Can -- is the C-Leg designed for jogging?
 19 **A:** No.
 20 **Q:** Is the C-Leg designed for running?
 21 **A:** It's more impact is the key word. There
 22 are people who jog on the C-Leg, but Otto Bock's
 23 real -- makes it real clear that it's more intended
 24 for a C3 than a C4. C4 not only implies more
 25 function --

1 **Q:** Now, can a person such as Mr. Tolson
 2 pivot on his left leg with the C-Leg?
 3 **A:** When you say pivot, yes. There's nothing
 4 to stop him from doing that. I don't know if you're
 5 implying torque absorber unit.
 6 **Q:** No. You --
 7 **A:** I think he has a torque absorber on his
 8 activity leg, which allows that rotation to occur in
 9 the components. But he can pivot on his foot.
 10 **Q:** Can he pivot on the leg, on -- on that
 11 leg?
 12 **A:** You're asking questions that are leg
 13 specific. So much of these questions are amputee
 14 specific. What he can and can't do aren't provided
 15 by or claimed by the C-Leg versus the Genium versus
 16 the Plie. Now, when I put -- put a rotator -- a
 17 torque absorber in there, that's one of the things
 18 they claim, golf, racquet sports, absorb rotational
 19 activity. But the C-Leg -- the C- -- the C-Leg is a
 20 knee. It's not an entire leg. I can put a torque
 21 absorber below it and above the foot, and Otto Bock
 22 makes the perfect size. It's been used many times.
 23 The first C-Legs I fit, we had torque absorbers in
 24 there because she was a double amputee.
 25 **Q:** Does he have a torque absorber in his

1 C-Leg?
 2 **A:** I'd have to look, which I'm glad to do.
 3 But I don't recall that it was there.
 4 **Q:** Would you be opposed to him getting a leg
 5 that has a torque absorber in it?
 6 **A:** I think he already has one on his
 7 activity prosthesis.
 8 **Q:** Okay.
 9 **A:** Which is more appropriate.
 10 **Q:** Can you -- can Mr. Tolson stand on his
 11 tippy-toes with the C-Leg that he has now?
 12 **A:** I -- I'd quantify that and say that none
 13 of these feet move downwards the way you and I can
 14 stand on our tiptoes. So he's not going to move his
 15 feet down to lift himself up. He can shift his
 16 weight forwards onto his tiptoes. And depending on
 17 his ability to balance there, there's nothing to
 18 preclude him from doing that.
 19 **Q:** Okay. Now, you -- you -- you said that
 20 you believe he has returned to -- he performs all
 21 the activities of daily living and work the same
 22 full job as he had prior to the injury; is that
 23 correct?
 24 **A:** That was my understanding of their
 25 deposition testimony.

1 exactly -- well, they do know when they touch the
 2 ground because they have force reaction that's
 3 transferred all the way up the line, but they don't
 4 know the same way you and I know. It's not through
 5 sensation. But they know from their -- their femur
 6 position in space, their hip muscles. They know
 7 from their rhythmic -- and rhythm in their gait.
 8 They have a pretty good sense of where their --
 9 their foot is, whether they're carrying weight or
 10 not.
 11 **Q:** Is there a -- a term in the prosthetic
 12 industry that refers to that inability of a person
 13 to know where his foot is without looking at it? Is
 14 there a particular word?
 15 **A:** Well, a proprioception would be the word
 16 that I'm thinking of.
 17 **Q:** Can you define that for me?
 18 **A:** A proprioception is, I would say, sensory
 19 feedback, a sensory ability to know positional
 20 space, but it's also the innate and -- and that
 21 sensory may not be coming from his foot or his shin
 22 bone, but it can come at the hip, and is overall
 23 center of gravity and sense of balance. A lot of a
 24 proprioception comes from your equilibrium.
 25 **Q:** In your opinion, did you have any

1 **Q:** Okay. Can he carry heavy objects with
 2 the C-Leg?
 3 **A:** I think it was stated that he can carry
 4 objects. That was one of Sachs' comments, that he
 5 carries objects. Whether he used the adjective
 6 "heavy," I don't recall.
 7 **Q:** What is the most amount of weight that
 8 you would ever recommend for a patient such as Mr.
 9 Tolson who has the C-Leg to carry safely?
 10 **A:** It would depend on his weight versus the
 11 weight rating or limitations of the C-Leg. And I
 12 think he's 245 -- 275, so you don't want to exceed
 13 the weight rating of the knee, so 30 pounds, 25
 14 pounds, a suitcase, a reasonable suitcase, a
 15 briefcase.
 16 **Q:** With the C-Leg, when he's carrying an
 17 object, does he know where his foot is without
 18 looking at it?
 19 **A:** Again, you're -- you're asking -- I know
 20 what you're implying in terms of brand-specific
 21 microprocessor. Amputees inherently know where
 22 their foot is. They don't have sensation. And the
 23 comment that Sachs made about when he doesn't even
 24 know where his foot is, ask any amputee; they'll
 25 tell you they know where it is. They may not know

1 problems with Mr. Berry or Mr. Sachs's projected
 2 costs for Mr. Tolson's C-Leg, taking out of the
 3 equation how long he's going to live? Do you have
 4 any --
 5 **A:** No. We have no argument.
 6 **Q:** Okay. So then you -- do you believe that
 7 the C-Leg is an appropriate leg for Mr. Tolson in
 8 light of his amputation, in light of his work
 9 requirements, in light of his daily activity
 10 requirements?
 11 **A:** Yeah. The -- the entire program that
 12 they projected is tried and proven. And, you know,
 13 I state that, that it's accepted and we have no
 14 argument with that.
 15 **THE VIDEOGRAPHER:** Can -- can you
 16 repeat that answer for me right there? You were
 17 scratching --
 18 **THE WITNESS:** Oh, sorry.
 19 **A:** The entire program, meaning what they
 20 recommend and h- -- have provided is based on
 21 reality. It's based on success and testified to by
 22 two different individuals. As far as that success
 23 goes, I can't argue against it.
 24 **Q:** You have no problem with it?
 25 **A:** I have no problem with it.

1 Q: Okay. So let's -- let's get to the point
 2 where -- what you do have a problem with. And I
 3 believe you have a problem with the recommendation
 4 of the more advanced knee for Mr. Tolson, which
 5 would be the Genium, correct?

6 A: I'm not buying into the fact that it's
 7 that much more advanced. It doesn't bring any more
 8 function to the table than what he already has.

9 MR. VANGEISON: Before we go
 10 further, can we take a quick break here?

11 THE WITNESS: Sure.

12 THE VIDEOGRAPHER: We -- we've got
 13 about six minutes on the tape so this is a good
 14 time. That's the end of DVD number 1. We're off
 15 the record at two o'clock p.m.

16 [RECESS - 2:00 P.M. TO 2:07 P.M.]

17 THE VIDEOGRAPHER: This is the
 18 beginning of DVD number 2. We are back on the
 19 record at 2:07 p.m.

20 Q: Okay. Mr. Schuch, I believe you just
 21 provided an opinion that you do not believe that the
 22 Genium is beneficial for Mr. Tolson because it does
 23 not provide more function to Mr. Tolson than what he
 24 already has; is that correct?

25 A: I'm not sure that I said it would not be

1 ability. I have no evidence that it would provide
 2 that ability. And I know plenty of amputees that
 3 walk backwards on other AK prosthesis. I would
 4 state like I did with the guy going up the stairs,
 5 that's more of an individual amputee attribute and
 6 skill level than it is what brand of leg he's
 7 wearing.

8 Q: Do you believe the Genium would not be
 9 beneficial to Mr. Tolson with respect to his ability
 10 to transverse obstacles and ascend stairs step over
 11 step versus the C-Leg?

12 A: The Genium does not power the knee. It
 13 does not -- just because it's the Genium does not
 14 per- -- and I'm not -- I don't like your question in
 15 the sense of would not be beneficial. I'm just
 16 saying that it's not going to lift him up the
 17 stairs. If he can't do it in the C-Leg, he not nec-
 18 -- isn't necessarily going to be able to do it in
 19 the Genium.

20 Q: Would the Genium make it easier for him
 21 to transverse obstacles and ascend stairs step over
 22 step?

23 A: Not that I'm aware of.

24 Q: Okay. Would the Genium improve his
 25 ability to ascend shallow ramps and hills?

1 beneficial. I just said I don't see where it brings
 2 anything more to the table. His own prosthetist,
 3 Sachs, said in -- when asked about new technology
 4 becoming available, he mentioned the Genium and he
 5 qualified it by saying, "which is basically the
 6 C-Leg." Unless I'm missing something here, the
 7 basic microprocessor functions that we've been
 8 talking about all day are what the Genium brings.

9 Q: Do you believe that the Genium offers a
 10 higher degree of stability when walking on uneven
 11 surfaces and when moving in multiple directions over
 12 the C-Leg?

13 A: That claim's probably out there. All I
 14 could say is prove it to me. Help me understand
 15 why.

16 Q: Well, I want to know whether or not you
 17 disagree with that claim.

18 A: I don't agree or disagree with it. I --
 19 I --

20 Q: Okay.

21 A: I have not seen any evidence that -- that
 22 shows that. It's still the same basic concept.

23 Q: Now, do you believe the Genium would not
 24 increase Mr. Tolson's ability to walk backwards?

25 A: I don't know that he even has that

1 A: Again, I have no evidence that it would.

2 Q: Do you have any evidence that it would
 3 not?

4 A: No.

5 Q: Okay.

6 A: I mean, it's just -- I keep saying it's
 7 the same thing. It's a -- it's a C-Leg with a few
 8 more gadgets on it. The concepts of how it reacts
 9 to the input -- input, the angle data, the force
 10 data, it -- it's still the same concept.

11 Q: Is the goal of a prosthetist such as
 12 yourself when you have a patient such as Mr. Tolson
 13 who sustained an above-knee amputation to try to get
 14 him back to the level of functioning that closely
 15 matches what he had with his own leg?

16 A: Yeah, that's a fair statement.

17 Q: Okay.

18 A: And beyond if you can. In some cases
 19 that occurs, Paralympians typically.

20 Q: In the last ten years, how many times
 21 have you testified at trial for either the injured
 22 patient or the defendant?

23 A: At trial?

24 Q: Yes, sir.

25 A: Not many. For prosthetics or either?

1 Q: No. I'm -- I'm talking about
 2 prosthetics, in the field of prosthetics.
 3 A: The whole field of prosthetics?
 4 Q: The field of prosthetics.
 5 A: Exclude orthotics?
 6 Q: Yes.
 7 A: At trial, in the last ten years, I'm
 8 going to say one unless I'm missing something.
 9 Q: How long ago was that?
 10 A: This past fall.
 11 Q: And who did you testify for?
 12 A: The counselor or the -- or the case?
 13 Q: Both, if you know.
 14 A: Seay, S-E-A-Y, versus -- in some cases I
 15 see it as Leniz, L-E-N-I-Z; Ossur, O-S-S-U-R, and
 16 the University of Alabama.
 17 Q: What was that case about?
 18 A: The synopsis is Leniz fit a patient with
 19 a flex foot, carbon fiber, pretty high activity foot
 20 made by Ossur. The patient was over the weight
 21 limit. The -- when I say weight limit, the -- all
 22 these products are ISO tested and load rated. The
 23 patient was significantly over the weight limit. He
 24 was working for the University of Alabama at the
 25 time. The prosthesis broke. The patient fell. I

1 wearing his -- Tolson is wearing his activity
 2 prosthesis because his socket doesn't fit on his
 3 C-Leg and he needs a new socket. Well, the socket
 4 fit of the 500-pound system was not as comfortable.
 5 And he repaired the old prosthesis, the flex foot,
 6 gave it back to him again and it broke a third time.
 7 This time, he broke his sound leg so bad that he had
 8 to have an amputation.
 9 Q: I'm going to guess you testified against
 10 the prost- -- prosthetist in that case?
 11 A: Yes.
 12 MR. VANGEISON: No.
 13 MR. GASTON: He didn't?
 14 MS. MAGUIRE: He doesn't like him.
 15 Kidding.
 16 MR. GASTON: You testified -- off
 17 the record, you're a funny man. Okay. Back -- back
 18 on --
 19 A: I would've had a hard time testifying --
 20 Q: Yeah. I -- I --
 21 A: -- on his behalf.
 22 Q: I would think so. I would think --
 23 A: I would say go talk to your insurance
 24 company.
 25 Q: Is -- is that the only time in the last

1 think the first time he didn't get terribly hurt.
 2 He repaired the prosthesis, gave it back to him,
 3 claims that's when he understood the weight
 4 restrictions. He claims he didn't understand it the
 5 first time around.
 6 Q: Who, the -- the prosthetist or the
 7 patient?
 8 A: The pr- -- prosthetist. It's not --
 9 Q: Okay.
 10 A: -- the patient's responsibility.
 11 Q: Okay.
 12 A: He didn't weigh him. You -- first,
 13 you've got to know for sure what the patient weighs.
 14 And, two, you've got to know all the parameters or
 15 restrictions. So he repaired it and gave it back to
 16 him, and that's when he claims he discovered that he
 17 was overweight and told him to lose weight. It
 18 broke again. The second time he got hurt much more
 19 significantly. And this was over the course of
 20 about eight or ten years. Provided him with a new
 21 prosthesis that was an over- -- it was a 500-pound
 22 system. So it -- it was weight rated significantly
 23 above his patient. But gave him back the repaired
 24 prosthesis a third time. The f- -- and -- the --
 25 the -- similar to what this guy's experiencing, he's

1 ten years you've been to court?
 2 A: That I can recall. I've done some
 3 orthotic trial.
 4 Q: Okay. And for the times that you've
 5 reviewed cases in the medical-legal field such as
 6 where we are in this case, can you tell me how many
 7 times it's been for the plaintiff versus the
 8 defendant?
 9 A: A certain time period?
 10 Q: If you can give me an estimate, your best
 11 estimate over the last 20 years.
 12 A: Okay. I've been doing this about 20. In
 13 the early days what got me into this is what I
 14 called am- -- amputee advocacy. I did cost-for-life
 15 projections. I don't like life care plans. That's
 16 what care planners do. So I was almost all
 17 plaintiff. As -- as word of mouth spread and I --
 18 that was pretty much it. I didn't -- didn't
 19 advertise. I got asked to do defense case. It --
 20 so in the middle years of those 20, it was starting
 21 to balance out. It was still more plaintiff than
 22 defense. People keep asking me specifics, and I've
 23 never kept statistics until this last year. On my
 24 revenue summary sheet, I started putting down that
 25 -- you know, what type, where I served on the case.

1 And it was this past year 75 percent defense and 25
 2 percent plaintiff, but I had more invoices per
 3 plaintiff than per defendant.
 4 Q: And do you know how much money you made
 5 per year over the last five years for providing
 6 expert witness testimony and consultation in these
 7 type of cases?
 8 A: It's been all over the map because of
 9 what my clinical role was. When I was at Duke, it
 10 was a lot because I was sought after through Duke as
 11 well. When we took Duke's PO department private, my
 12 role changed completely. I -- I needed -- so it
 13 dropped way off. But I know the -- I just did my
 14 taxes. I think my net revenue, net profit for the
 15 LLC last year was \$62,000.
 16 Q: And do you know what your gross earnings
 17 was?
 18 A: In the 80's.
 19 Q: Eighties. And has it been in the 80's
 20 steadily over the last five years?
 21 A: Last year was -- Maryland was good to me.
 22 Word of mouth must -- I had five or six cases in
 23 Maryland, three of them identical type cases, two of
 24 them the same hospital. But it was an unusual -- a
 25 higher than normal year. The year I was at SPS, I

1 analysis? Is that how you --
 2 A: Yeah, I've done that.
 3 Q: Okay.
 4 A: Ironically, the two trials were out of
 5 the country. One was in Bermuda and one was in
 6 Grand Cayman. I've done it orthotically in the
 7 United States.
 8 Q: Do you -- orth- -- okay. But how about
 9 for -- for prosthetics?
 10 A: I -- I haven't had a trial that -- where
 11 I was, you know, working for the plaintiff. I've
 12 done lots of cost projections.
 13 Q: For the --
 14 A: Rare -- rarely even gets to the
 15 deposition.
 16 Q: Okay. Now, you've done --
 17 A: So --
 18 Q: -- a lot of cost projections in the field
 19 of orthotics?
 20 A: More in prosthetics.
 21 Q: More in prosthetics, okay.
 22 A: I've done a couple in orthotics.
 23 Q: Okay. All right. So do you have, by
 24 chance, Mr. Berry's report there in that box?
 25 A: I do.

1 think my net profit was 22,000, and I didn't push it
 2 at all.
 3 Q: Have you testified in federal court?
 4 A: Yeah, I think so.
 5 Q: In federal court, you're required to keep
 6 a list of the cases that you have. Do you have that
 7 list?
 8 A: I had what I call a testimony vitae. And
 9 I had -- I also had an IT guy that claims we had a
 10 backup system, and my computer crashed in the fall
 11 of 2012. I lost all of it. I reconstructed what I
 12 could and I'm -- I'm keeping all of it again on my
 13 new laptop here with a -- I back it up personally
 14 onto a thumb drive or a flash drive.
 15 Q: That -- that -- that's one of the
 16 documents we asked you to bring with you. Do -- do
 17 you think you can print that out for us and --
 18 A: I sure can.
 19 Q: -- give it to your lawyers? Okay. All
 20 right.
 21 A: It -- it's accurate for -- since the
 22 computer crashed. It's a guesstimate beyond that.
 23 Q: I understand. All right. So ha- -- have
 24 you ever been qualified as a -- a -- in court to
 25 provide cost -- is it, say, cost-for-life projection

1 Q: I just want to go to the last page where
 2 he's given a total. So -- so I'm trying to figure
 3 out what we agree to and what we don't, and I'll
 4 just go to the very last page and read this number
 5 to you and I'll ask you if you agree with that --
 6 that's a fair and reasonable number for --
 7 A: Are we on the original report or the --
 8 Q: Yes, sir. The -- the original report.
 9 We'll stick with the original report first.
 10 A: Last page.
 11 Q: Last page.
 12 MS. MAGUIRE: Just for the record,
 13 what's the date on that report?
 14 MR. VANGEISON: Is this the April
 15 29, 2013 report that --
 16 MR. GASTON: I don't know.
 17 THE WITNESS: Yes.
 18 MS. MCGUIRE: Okay. Just that would
 19 be easier.
 20 MR. GASTON: Here we are. Thank
 21 you.
 22 Q: Okay. Now, if I understand your
 23 testimony correctly, that you are in agreement with
 24 Mr. Berry and Mr. Sachs that the fair and reasonable
 25 cost for Mr. Tolson's prosthetic devices and the

1 care needs associated with those devices projected
 2 out to the age 82 would be \$687,350.75. Is that
 3 accurate?
 4 **A:** I'm --
 5 **MS. MAGUIRE:** Objection.
 6 **A:** -- looking at --
 7 **MS. MCGUIRE:** Go ahead.
 8 **A:** I'm looking at that figure, but I think I
 9 made it clear in my report that one of your things
 10 on your Notice of Deposition was what evidence do I
 11 use for actuarial data. I go to the Social Security
 12 tables if I -- if I'm doing a cost projection. And
 13 I know he isn't going to -- you know, I didn't -- no
 14 -- no actuarial data is going to support him living.
 15 So that was my only objection. But that figure --
 16 **MR. VANGEISON:** You broke off.
 17 Living to what?
 18 **THE WITNESS:** Living to 80 -- beyond
 19 82. They're showing a totally new prosthesis at 82,
 20 and additional expenses such as socket replacement,
 21 et cetera, at 83 and 84. That's assuming he's going
 22 to live to be 86 or 87.
 23 **Q:** Okay. Let -- let me -- let me ask you
 24 another question. I want you to assume in this case
 25 as a hypothetical question Mr. Tolson lives to age

1 one -- one orthotic one was in the United States.
 2 The two prosthetic ones where I actually went to
 3 trial were, what, British --
 4 **Q:** Okay. But not in the --
 5 **A:** -- countries.
 6 **Q:** -- in the United States?
 7 **A:** Not in the United --
 8 **Q:** Not in the United States. Do you intend
 9 to give an opinion in this case as to what Mr.
 10 Tolson's life expectancy is?
 11 **A:** I haven't been asked to. If I'm asked
 12 to, I -- I'll do what I normally do. I'll go to the
 13 Social Security actuarial data.
 14 **Q:** But at this time here today, you do not
 15 have --
 16 **A:** That's not --
 17 **Q:** -- an opinion --
 18 **A:** No.
 19 **Q:** You've not been asked to give a
 20 projection as to Mr. Tolson's life expectancy and
 21 you do not have an opinion as to Mr. Tolson's life
 22 expectancy?
 23 **A:** I do not.
 24 **Q:** Okay. All right. So -- and it looks
 25 like the disagreement is between what you believe is

1 83 for the hypothetical. Would you then believe
 2 that the amount of \$687,350.75 as projected by Dale
 3 Berry and Gregory Sachs would be a fair and
 4 reasonable cost projection for the prosthetic
 5 devices and care that Mr. Tolson will need until he
 6 reaches the age of 83, assuming he lives to the age
 7 of 83?
 8 **MS. MAGUIRE:** Objection.
 9 **A:** We don't --
 10 **MR. VANGEISON:** Same objection, but
 11 you can answer.
 12 **A:** We don't take any argument with that.
 13 And I -- I think I said that in my report.
 14 **Q:** Is that a yes, you agree?
 15 **A:** That's a yes.
 16 **Q:** Okay. So, then, your disagreement is
 17 with respect to the projected life expectancy of Mr.
 18 Tolson, correct?
 19 **A:** In this particular part, yes.
 20 **Q:** Now, have you ever been qualified as an
 21 expert with respect to life expectancy estimates?
 22 **A:** I wasn't qualified as an expert on that
 23 subject. The presentation that I made in my
 24 testimony or report was accepted based on my
 25 reference, and that was not in the United State --

1 fair and reasonable cost projections, assuming Mr.
 2 Tolson lives to the age of 83, would be the
 3 difference between the \$687,350 amount for the C-Leg
 4 versus the additional \$250,000 for the advanced
 5 Genium?
 6 **A:** Correct.
 7 **Q:** Okay. I got you. All right. Is there
 8 any manufacturing guidelines, documents,
 9 publications in the field of prosthetic devices that
 10 you've used or you feel is reasonably reliable for
 11 the issues in this case?
 12 **A:** Well, I think the world has become
 13 dependent on the Internet. I see you printed off
 14 quite a bit of stuff there. So that's my first
 15 line, is the Internet. And, generally, especially
 16 on new products, it's going to be biased by the --
 17 the company. It's -- it's market driven. I -- I
 18 find it hard to get actual data or -- I'm not -- I'm
 19 not a scientist, but to get facts that -- clinical
 20 facts that really convince me of certain things.
 21 But the longer a product has been out like the
 22 C-Leg, they've got more clinical studies on it
 23 showing its efficacy than any other microprocessor
 24 and probably more than a lot of the old -- you know,
 25 the SNS types.

1 Q: My question was do you believe that there
 2 are any manufacturing guidelines, publications, and
 3 including any articles, journals, studies that are
 4 reasonably reliable --
 5 A: Yes.
 6 Q: -- in the field of -- in the field of
 7 prosthet- --
 8 MS. MAGUIRE: Let -- let him finish
 9 the question.
 10 MR. GASTON: That's okay.
 11 MR. VANGEISON: Yeah. Let him
 12 finish the question.
 13 Q: -- in the field of prosthetics for the
 14 issues involved in this case?
 15 MR. VANGEISON: What he's asking you
 16 is whether or there's anything that's authoritative
 17 in your field that you routinely rely on in order to
 18 make decisions about issues such as are in this
 19 case.
 20 A: There are -- there are journal articles
 21 that are accepted, peer-reviewed on the C-Leg. I'm
 22 unable to find anything like that on the Genium.
 23 Q: But did you do a journal or article
 24 search for the Genium for this case?
 25 A: Not a specific journal article.

1 A: I think we've covered --
 2 MS. MAGUIRE: Objection. Go ahead.
 3 Q: Go ahead.
 4 A: I mean, I -- I -- my responses have been
 5 on your questions and queries. I haven't come in
 6 here with a list of -- so, obviously -- and they
 7 haven't asked me their questions. So it's going to
 8 be dependent on y'all, but I'm not holding anything
 9 back.
 10 Q: So -- so far --
 11 MS. MAGUIRE: I like that answer.
 12 Q: So far we've been -- we've been at this
 13 for about two and a half hours. Do you think you've
 14 told me all the opinions that you've reached in the
 15 case so far?
 16 A: I think so.
 17 Q: All right. And have you told me all the
 18 factual basis for your opinions?
 19 A: Thus far, yes.
 20 Q: Okay. All right. That's all the
 21 questions I have. Thank you. These fine people
 22 might have some questions of you. I'm not sure.
 23 MS. MAGUIRE: I don't, but I don't
 24 know if you do.
 25 MR. VANGEISON: Let's take a quick

1 Q: Did you do any --
 2 A: If the articles are there, they're going
 3 to be referenced on their Web site, and I did not
 4 see -- I was not referenced or referred to any.
 5 Q: But -- so you went to the Otto Bock Web
 6 site?
 7 A: Yeah, of course.
 8 Q: Okay. So -- but you did no other search
 9 in any medical journal or association you may be a
 10 member of for issues involved in this case?
 11 A: I haven't done that in years. I do
 12 Internet searches, journal searches.
 13 Q: Do you intend at this point to rely upon
 14 any such journal articles, publications,
 15 manufacturing guidelines for any of the opinions
 16 that you intend to give in this case?
 17 A: My opinions to date, obviously, are not
 18 t- -- reliant on that. If I'm asked to -- to do
 19 that research, I'm capable of doing it.
 20 Q: Okay. But as of today's date, you have
 21 not been asked to do that research?
 22 A: Correct.
 23 Q: Okay. Have you told me all the opinions
 24 that you've reached in this case and intend to give
 25 at trial?

1 break.
 2 THE WITNESS: Okay.
 3 THE VIDEOGRAPHER: We're off the
 4 record at 2:28 p.m.
 5 [RECESS - 2:28 P.M. TO 2:33 P.M.]
 6 THE VIDEOGRAPHER: We're back on the
 7 record at --
 8 MS. MAGUIRE: Oh.
 9 THE VIDEOGRAPHER: -- 2:33 p.m.
 10 MS. MAGUIRE: You had more
 11 questions?
 12 MR. VANGEISON: Did you just make
 13 copies of those?
 14 MR. GASTON: Yeah. That's all I
 15 need.
 16 MR. VANGEISON: Okay.
 17 MR. GASTON: I just -- I just need
 18 the court reporter to mark as an exhibit Mr.
 19 Schuch's notes, and you can keep the originals and
 20 we can take a copy of it, if that's okay.
 21 THE WITNESS: Do you want a copy
 22 made today to take with you?
 23 MR. GASTON: Yes, sir. Well, the
 24 court reporter will help us out with that. Thank
 25 you.

1 THE VIDEOGRAPHER: Is that it?
 2 MR. VANGEISON: And I have no fur-
 3 -- I have no questions, but I do want to advise the
 4 witness that under the Maryland rules, you have the
 5 right to review the transcript, if you wish, for its
 6 accuracy. You can also, if you think that you've
 7 made an error, make changes to the substance of your
 8 answers. If you do so, then Mr. Gaston has the
 9 right to come back to ask questions about that
 10 change. I would -- you're not my witness, so you --
 11 you're not my client, so you can do whatever you'd
 12 like, but I'd prefer if you reviewed the -- the
 13 testimony.

14 THE WITNESS: And sign?
 15 MS. MAGUIRE: Uh-huh.
 16 MR. VANGEISON: And sign, yes.
 17 THE WITNESS: Or do an errata sheet?
 18 MR. VANGEISON: Right.
 19 MS. MAGUIRE: Correct.
 20 THE WITNESS: That's usually the way
 21 I'm advised. So that's --
 22 MS. MAGUIRE: I agree.
 23 THE WITNESS: I'll choose to do
 24 that.
 25 THE VIDEOGRAPHER: Is that it?

1 I have read the foregoing pages which contain a
 2 correct transcription of the answers given by me to
 3 the questions herein recorded. My signature is
 4 subject to corrections on the attached errata sheet,
 5 if any.
 6

7 Signed this ____ day of _____, 2014.
 8
 9
 10 _____
 11 Charles Michael Schuch
 12

13 STATE OF _____
 14 COUNTY OF _____
 15
 16 Subscribed and sworn to before me this ____ day
 17 of _____, 2014.
 18

19
 20 _____
 21 Notary Public
 22

23 My commission expires:
 24
 25 _____

1 THE WITNESS: I almost always find
 2 the errata --
 3 THE VIDEOGRAPHER: This is the end
 4 of DVD number 2 and concludes the videotaped
 5 deposition of Michael Schuch. We are off the record
 6 at 2:34 p.m.
 7 [DEPOSITION EXHIBIT NO. 9 MARKED FOR
 8 IDENTIFICATION]
 9
 10 _____
 11 [WITNESS DISMISSED AT 2:34 P.M.]
 12 READING AND SIGNING WAIVED
 13
 14
 15
 16
 17
 18
 19
 20
 21
 22
 23
 24
 25

STATE OF NORTH CAROLINA
 COUNTY OF WAKE

C E R T I F I C A T E

I, Tammy Johnson, notary public/court reporter, do hereby certify that the above-named was duly sworn or affirmed prior to the taking of the foregoing deposition; and that said deposition was taken and transcribed under my supervision; and that the foregoing pages, inclusive, constitute a true and accurate transcription of the testimony of the witness.

I do further certify that the persons were present as stated in the caption.

I do further certify that I am not of counsel for or in the employment of either of the parties to this action, nor am I interested in the results of this action.

This is the 7th day of April, 2014.

 Notary Public #20011560080